

ZyXEL

Firmware Release Note

ZyWALL 35

Release 4.04(WZ.6)C0

Date:	October 13, 2009
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ZyXEL ZyWALL 35 Standard Version

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Release Note

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Supported Platforms:

ZyXEL ZyWALL 35

Versions:

ZyNOS Version: V4.04(WZ.6) | 10/13/2009

BootBase: V1.09 | 02/12/2009

Agent Version: V2.1.7(WZ.0)base

Notes:

1. Restore to Factory Defaults Setting Requirement: No.
2. The setting of ignore triangle route is on in default ROM FILE. Triangle route network topology has potential security risks. For further details, please refer Appendix or User Guide for the triangle route issue.
3. When firewall is turned from "Off" to "On", all connections running through the ZyWALL will be disconnected.
4. SUA/NAT address loopback feature is enabled on ZyWALL by default, however, if users do not need it, a C/I command "ip nat loopback off" could turn it off.
5. In WLAN configuration, a switch for enable / disable WLAN is added. The default value is "**disable**" since WLAN without any security setting is vulnerable. Please configure MAC filter, WEP and 802.1X when you enable WLAN feature.
6. When UPnP is on, and ZyWALL is rebooted, Windows XP may not detect it. Disconnecting and reconnecting the network wire again will solve this problem.
7. For ZW5/35, the default port roles are LAN. For ZW70, the default port roles are DMZ.
8. In bridge mode, If LAN side DHCP clients want to get DHCP address from WAN side DHCP server, you need to turn on the firewall rule for BOOT_CLIENT service type in WAN→LAN direction.
9. Under Bridge Mode, all LAN ports will behave as a hub, and all DMZ ports will also behave as another hub.
10. For users using the default ROMFILE in former release, please remove "ip nat session 1300" from autoexec.net by CI command "sys edit autoexec.net". (Upgrade from 3.62)
11. In previous 3.64 firmware, the VID value of DPD is not correct. VID change will

cause current version not work with the wrong value. Please be sure to connect with devices which have updated VID, or the DPD may not work correctly.

12. In SMT menu 24.1, "WCRD" only represents the WLAN card status when you insert WLAN card into the ZyWALL. If you insert TRUBO card, you will see " WCRD" is always down.
13. If you do not want a mail to be scanned by Anti-Spam feature, you can add the mail into whitelist in eWC->Anti-Spam->Lists
14. The first (first two) entry for static route is reserved for creating ZW5 (ZW35/70) WAN default route and is READ-ONLY.
15. If you have activated content filtering service but the registration service state is "Inactive" after upgrading to 4.00, please click "Service License Refresh" in "eWC->REGISTRATION->Registration" or wait until device synchronize with the myzyxel.com.
16. WAN1 and WAN2 must be different subnet.
17. In Firewall/IDP/AV/AS/BM security rule, Dial backup traffic belongs to WAN interface. (In ZW35/70, the Dial backup traffic belongs to the higher priority WAN interface, for example, if WAN1 priority is higher than WAN2, Dial backup traffic will manage by WAN1 in Firewall/IDP/AV/AS/BM security rule.)
18. Support Vantage CNM – version 3.0.00.61.00.
19. For more information on commands, download the product line's CLI Reference Guide from the Download Library at www.zyxel.com.
20. When device boots in Bridge Mode, some CI command error messages will be displayed on console. This is because some predefined CI commands in autoexec.net is forbidden to execute in Bridge Mode.

Known Issues:

System Limitation

[Bandwidth Management]

1. Bandwidth Management doesn't work on wireless LAN.

[Content Filter]

1. Can't block ActiveX in some case. (Sometime the ActiveX block fails. This is because the ActiveX is cached in C:\WINNT\Downloaded Program Files\ If you want to test the ActiveX block functionality. Please clear the cache in windows.)

[MISC]

1. At SMT24.1, the collisions for WAN, LAN and DMZ port are not really counted.
2. Symptom: LAN host can ping Internet while LAN host change cable from LAN port to DMZ port.
Condition:
(1) Host connects to LAN port and gets DHCP address from router.
(2) Unplug LAN host cable and plug it into DMZ port.
(3) The host can still ping Internet using LAN DHCP address.
(4) The scenario will continue about 30secs.
3. When device is writing flash, all the interrupt/service will be stopped. (Firmware

upload and signature update for full version will take tens of seconds)

- Because of the memory shortage (ZW5/P1), device have to restart when customer need to upgrade firmware sometimes.

Issues

[ALG]

- H323 does not support the server in LAN topology.
- Currently, we do not support NAT loopback on SIP registration or proxy server, which means if your SIP client is located on LAN, your registration server address cannot use ZyWALL WAN IP to do loopback to SIP server which located on LAN.
 - NAT loopback for SIP server on LAN.
 - Client A(WAN) call Client B(LAN) using LAN's IP, and the reversed way. That is you should call phone number directly to each other without the IP address.

There issue will be improved for future plan.

 - Device can support direct ACK/BYE sip request, but for the following topology.

Client_A-----SIP Server----- (L) ZW_1 (W) ----- (W) ZW_2 (L) ----- Client_B
 (Client/Server) ----- (LAN) DUT (WAN) ----- (client)
 Stop calling from answer client, the calling can't terminate normally.

[Anti-Spam]

- Mail cannot pass through 2 devices with Anti-Spam enabled.
- Customer need to turn off the redundant check for AS and AV for gathering more CPU resource or CPU will always reach 100%. When CPU reaches 100%, the AS/CF query will be timeout sometimes because there is no resource for it.
- The maximum length of the mail subject is 2037 right now. The mail subject you input is 2037, but you need to add the length of (A)"subject: " and (B)"\r\n", (A)+(B) is 11 bytes. They equal to 2048.

[Anti-Virus]

- Virus eicar.com can be detected when download by FTP but couldn't detect if it attached in mail by POP3 & SMTP. Other virus (e.g. foo.exe) could be detected by POP3 and SMTP. This problem is exited in 4.01 Patch 2 C0 too.

[Bandwidth Management]

- Bandwidth management H.323 service does not support Netmeeting H.323 application.
- If H323/SIP ALG doesn't work, the Bandwidth management cannot manage the traffic too.

[Bridge Mode]

- In the following topology, Firewall VPN to LAN ping can't be permitted.

PC1-----DUT1-----NAT Router-----PQA lab-----DUT2-----PC2
 IP: 192.168.1.33 IP: 192.168.1.2 LAN: 192.168.1.1 WAN: 172.25.21.24 IP: 192.168.2.33
 GW: 192.168.1.2 WAN: 172.25.21.200 LAN: 192.168.2.1 GW: 192.168.2.1
 (1) DUT1 is on bridge mode, DUT2 is on router mode, build VPN tunnel between

them.

(2) On DUT1 enable Firewall, and set Drop for VPN to LAN, then add a firewall rule of VPN to LAN:

Source address = 192.168.2.33

Destination Address = 192.168.1.33

Selected Service = Any (ICMP)

Action for matched Packets = Permit.

(3) Can't ping 192.168.1.33 from 192.168.2.33 and you can find

"Unsupported/out-of-order ICMP: ICMP (Echo Reply)" log on log page.

Note:

(1) Here, PC1's GW is DUT1's LAN IP. With the ICMP reply packet, the destination IP is 192.168.2.33. In PC1, the packet will match the default GW (192.168.1.2) and change the destination MAC as DUT's LAN MAC. DUT receive the packet and the destination MAC is DUT's LAN, DUT thinks this packet is send to itself and the ICMP out of order happens. This is because there is no ICMP request packet for the device itself but an ICMP reply packet for DUT.

(ICMP out of order scenario, not ICMP request but with ICMP reply)

(2) If set the default GW in PC1 as 192.168.1.1, the packet's destination MAC is NAT-Device's LAN (192.168.1.1), not DUT's IP. DUT knows the packet is not for itself and ready pass through it. But the packet match the VPN rule and it will be encrypted by DUT.

[Content Filter]

1. CF Denied Access Message can run script.
2. And the categories function can also has some issue because of the OutpostPro firewall bug fix. When user want to block some categories, such as "Search Engines/Portals", external DB search work normally the first time. But after refreshing the page or open the website again in another Browser window, only "Please contact your network administrator!!" can be showed, without the link to bluecoat.
3. Web sites of category "Peer-to-Peer" were recognized as "Spyware/Malware Sources".
4. "Don't block Java/ActiveX/Cookies/Web proxy to trust Web site" function in content filter cannot work.

Symptom: "Don't block Java/ActiveX/Cookies/Web proxy to trust Web site" function in content filter cannot work.

Condition:

- (1) In eWC->SECURITY->CONTENT FILTER->General page, enable "Content filter" and block "Java Applet/ActiveX/Cookies/Web Proxy".
- (2) In eWC->SECURITY->CONTENT FILTER->Customization page, enable "Web site customization" and "Don't block Java/ActiveX/Cookies/Web proxy to trusted Web sites". Add "web.haccpsoft.it" to "Trusted Web Sites".
- (3) A PC in ZYWALL's LAN side browses "http://web.haccpsoft.it:8080" website.
- (4) Login in and click the date, the popup window should show a calendar instead of another login page.

(5) It is blocked by content filter.

5. There is a forward log of the blocked web site.
 Condition:
 (1) Register Content Filter service.
 (2) Enable Content Filter and Enable External Database Content Filtering.
 Block "Email" category.
 (3) Log "Forward Web Sites", "Blocked Web Sites", "Blocked Java etc." in "Log Settings".
 (4) Visit <http://www.email.com> which is in Email category in LAN PC, the web site will be blocked and there is a blocked log of it. But there is another forward log of this blocked web site too.
 (5) This problem is existed in 4.01 Patch 2 C0 too.

6. <http://info.zyxel.com.tw> was recognised as "google".
 Condition:
 (1) Input "google" in Keyword Blocking of Customization.
 (2) Visit <http://info.zyxel.com.tw> in LAN PC. The web site is opened successfully. But there is a Keyword Blocking log say "info.zyxel.com.tw: Keyword blocking" (see attached file).
 (3) Visit other web site is normal.
 (4) This problem is also existed in 4.01 Patch 2 C0 too.

7. Keyword blocking has functioned even if "Web site customization" was disabled.
 Condition:
 (1) Enable Content Filter.
 (2) Add google into Customization>>Keyword Blocking. Keep "Web site customization" was disabled.
 (3) PC in LAN visit www.google.com will be blocked there are blocked log (see attached picture).
 (4) This problem does NOT exist in "Forbidden Web Site List".
 This problem is existed in 4.01 Patch 2 C0 too.

[Firewall]

1. Some limitations on Firewall CLI configuration, (1) User can not delete specific address or custom port entry from a rule. (2) CLI doesn't support Modify and Move for rules implemented in eWC. (3) eWC can not display firewall rule field correctly if rule is added by CI command and its type is port/address range.
2. Ping of Death Log has some fault when argument in CI "ip icmp death" bigger than 1500.
 Conditions:
 (1) Type CI "ip icmp death 1000" or "ip icmp death 1500".
 (2) PC1 ping PC2 with DOS command "ping 172.25.21.254 -l 1600", the log is shown as: "ping of death. ICMP(Echo)".
 (3) Type CI "ip icmp death 1501" or other number bigger than 1500.
 (4) PC1 ping PC2 with DOS command "ping 172.25.21.254 -l 2000", the log is shown as: "ping of death. ICMP(Echo Reply)". That is to say when argument in CI "ip icmp death" is bigger than 1500, the log is different.

And sometimes the log shown as “ping of death. ICMP(W to L, Echo Reply)”.

[UPnP]

1. Sometimes on screen the “Local Area Connection” icon for UPnP disappears. The icon shows again when restarting PC.

[VPN]

1. VPN rule swap does not support NAT Traversal.

[MISC]

1. The DMZ TxPkts counter increment at about 1 pkt/min even without any Ethernet cables ever connected.
2. ZyWALL does not support WAN 1/WAN 2 on the same sub-net. (For Multiple WAN products)

[LOGS]

Symptom: When fail to connect SMTP server some times, then ZyWALL couldn't send Log successful anymore although you configurations are correct.

Condition:

- (1) sys log load
- (2) sys log mail port 1000
- (3) sys log save
- (4) In eWC>>LOGS>>Log Setting, set:
 - a) Mail Server = ms01.zyxel.cn
 - b) Mail Subject = test
 - c) Mail Sender = your_email_address@zyxel.cn
 - d) Send Log to = your_email_address@zyxel.cn
 - e) Send Alerts to = your_email_address@zyxel.cn
- (5) Generate Log in ZyWALL continuously (you can use Firewall Log).
- (6) In eWC>>LOGS>>View Log, click “Email Log Now”, you will see “SMTP fails.....” Then click it 2 times again. There is nothing SMTP Log.
- (7) sys log mail port 25
- (8) sys log save
- (9) In eWC>>LOGS>>View Log, click “Email Log Now”. There is nothing SMTP Log and you couldn't receive mail send from ZyWALL.

[CNM]

1. Vantage server configure remote management, login device eWC by Https, device will crash.
2. VPN>>VPN Ipsec >> In Virtual Address Mapping Rule, choose Active, set private or virtual IP range very large, such as 1.1.1.1-2.2.2.2. Device will crash because of no enough memory.

[SMT]

1. Symptom: Cannot configure DDNS from SMT.

Condition:

- (1) Enter SMT menu1, Edit Dynamic DNS= Yes.
- (2) Try to input username and password.
- (3) Cannot input username, only can select yes or no.

Features:

Modifications in V4.04(WZ.6) | 10/13/2009

Modify for formal release.

Modifications in V4.04(WZ.6)b2 | 10/07/2009

1. [FEATURE CHANGE]

The registration and/or signature update will not be affected by SSL certificate renewal on the servers – customer can continue to do registration and/or signature update.

Modifications in V4.04(WZ.6)b1 | 09/25/2009

1. [BUG FIX] SPR ID: 090717298

Symptom:

DNS proxy doesn't work in certain condition.

Condition:

(1)Configure 4 DNS servers on the ZyWALL. Some servers are unavailable.

(2)LAN side PCs uses the device as the DNS server.

(3)LAN side PCs query lots of different domain names in short time and several domain names don't exist on any DNS server.

(4)After a while, ZyWALL can not resolve the DNS query from LAN side.

2. [BUG FIX] SPR ID: 090612747

Symptom:

For one IPSec dynamic rule, all tunnels are dropped when just one reaches IKE retransmit limit.

Condition:

(1) Setup a dynamic VPN rule on ZyWALL, 2 peers build tunnel with the ZyWALL.

(2) After the tunnel between peer A is built successfully, dial IPSec VPN tunnel from peer B. When the IKE negotiation sending to peer B by ZyWALL is blocked or lost according to network issue (such as firewall), then the tunnel between peer A is also deleted when the IKE packets sent to peer B reaches retransmit limit.

Modifications in V4.04(WZ.5) | 06/16/2009

Modify for formal release.

Modifications in V4.04(WZ.5)b1 | 06/05/2009

1. [ENHANCEMENT]

Import a new trusted CA in default configuration to support myzyxel.com certificate update.

2. [BUG FIX] SPR ID: 090520725

Symptom:

Content filter error message is showed by mistake

Condition:

(1) Reset to default configuration and activate the "Content Filter" service on the device.

- (2) On eWC NETWORK>>WAN, configure it with fixed IP address.
- (3) On eWC ADVANCED>>DNS>>System, add a public DNS server "172.25.5.1"
- (4) On eWC SECURITY>>CONTENT FILTER >>General, enable Content Filter.
- (5) On eWC SECURITY>>CONTENT FILTER >>Policy, add a policy for "any" address, and select all categories for external DB.
- (6) Configure LAN PC with public DNS server "4.2.2.2". Access to "www.sina.com.cn" on LAN PC is blocked by the device.
- (7) Reboot the device and refresh service on device. Then delete the configured DNS server.
- (8) When LAN PC tries to access "www.sina.com.cn" again, it's blocked with error message "Creating socket failed" while the device generates log " Cannot get the IP address of content filtering external database via DNS query." The correct error message should be "DNS resolving failed".

3. [BUG FIX] SPR ID: 090512882

Symptom:

DDNS service "Regfish" doesn't work.

Condition:

- (1) In eWC->DDNS page, configure service Provider = WWW.REGFISH.COM and other related information.
- (2) After apply, there is no DDNS update log in EWC->log page. Check in WWW.REGFISH.COM web site, update doesn't successful.

4. [BUG FIX] SPR ID: 0904724635

Symptom:

There are many logs "Connectivity ping check fails" for WAN2 when device is under A/P mode and WAN1 is ok.

Condition:

- (1) Reset device to default setting.
- (2) Keep WAN1 and WAN2's physical connection.
- (3) After WAN1 get an IP address from DHCP server, configure WAN2 as a static IP address.
- (4) After a while, check the logs. There are such logs "Connectivity ping check fails" for WAN2.

5. [BUG FIX] SPR ID: 080318096

Symptom:

Add a custom service rule on Service page, click "apply" button, status bar show incorrect message.

Condition:

- (1) In eWC/Firewall/Service, add a custom service rule
- (2) Service name is (TCP: 200), IP protocol is TCP, port is 200, then apply
- (3) The status bar will show "can not use '(' in Custom Port Name", should be "can not use '(' in Custom Service Name".

6. [BUG FIX] SPR ID: 080526515

Symptom:

The hyperlink of signature policy in mail report is wrong.

Condition:

(1) Enable IDP function.

(2) Enable UTM (IDP) report function and mail report function.

(3) Send report mail.

(4) The hyperlink of signature policy in mail report is wrong, but such hyperlink in log page, IDP report or home page is ok.

7. [BUG FIX] SPR ID: 090602115

Symptom:

With PPPoE connection, device hangs when it works as DNS proxy.

Condition:

(1) On GUI NETWORK>>WAN, configure ZyWALL WAN as neil-up PPPoE connection.

(2) On GUI ADVANCED>>DNS>>SYSTEM, add 3 public DNS server.

(3) Configure device as LAN PC's DNS server.

(4) LAN PC ping domain name
"ldap._tcp.Standardname-des-ersten-Standorts._sites.dc._msdcs.caramobil.loca"

(5) Check device's mbuf usage with CLI "sys mbuf status"

"Pool-ID: 1[type=0, st=3 size=(80/110) num=800] alarm=0 alloc=400 fail=0 free=398". There are 2 mbufs are not freed.(Remained cnt = alloc cnt - free cnt)

(6) When LAN PC queries more and more for this domain name, more and more mbufs are leaked, then device will hang.

8. [BUG FIX] SPR ID: 090601021

Symptom:

The trial period of IDP/AV is shown wrong in GUI.

Condition:

(1) Goto page REGISTRATION-->Registration.

(2) In Service Activation, you can see "IDP/AV 3-month Trail". In fact, IDP/AV only supports "1-month trial now".

(3) The same problem happens in Wizard and help page.

Modifications in V4.04(WZ.4) | 03/17/2009

Modify for formal release.

Modifications in V 4.04(WZ.4)b1 | 03/05/2009

1. [ENHANCEMENT]

Support change of report mail port and diagnostics mail port.

2. [ENHANCEMENT]

Enlarge the length of "Login Name" and "Password" in Dial Backup page, from 31

to 62.

3. [ENHANCEMENT]

For dial backup, add a CI "aux ignoreDSRSignal" to support 3G modem which doesn't issue DSR signal.

4. [ENHANCEMENT]

Add a note for Diagnostics page

5. [BUG FIX] SPR ID: 081128311

Symptom:

When ZW lan PC do torrent download, lan pc will could not ping out.

Topology:

LAN PC----ZW70----Internet.

Condition:

When ZW lan PC do torrent download, lan pc will could not ping out. Device RX has some issue.

6. [BUG FIX] SPR ID: 081124085

Symptom:

ZyWALL tranfer avidp signature type error.

Condition:

(1) register and activate service from wizard;

(2) Go to myzyxel.com server.you will find like the log: “ [INFO] 2008-11-04 16:57:37-[Source IP]: 61.50.179.26 [Action]: service_trial [Mac]: 0019CB90C429 [LK]: T-CF0002*T-ZAS001*T-ZAVID1 [CF Unique Key Flow]: true [FW]: 4.04 [Sig]: ZAVLIPS [SKU]:CFRT=1&CFTT=30&ISUT = 90 & ZAVT = 90 & ZSIG = ZAVLIPS”

(3) Currently, ZYNOS devices do not support ZAVLIPS service yet.But the device transfer the parameter ZAVLIPS to myzyxel.com.

7. [BUG FIX] SPR ID: 081217938

Symptom:

Some OIDs are not available in the mib tree.Interface RX,TX, SNMP

Condition:

(1) Using ZyXEL private mib to display device status.

(2) OID sysDeviceInterfaceTX and sysDeviceInterfaceRX are gray and there is no data for these two OIDs.

8. [BUG FIX] SPR ID: 081230768

Symptom:

User can't connect to ZyWALL via SSH if another user has connected to ZyWALL via, SSH but not login yet.

Condition:

(1) Connect to ZyWALL via SSH by one PC, but not enter login and pass, simply establish connection to ZyWALL.

(2) Make connection from another PC to ZyWALL via SSH, but second connection could not be established.

9. [BUG FIX] SPR ID: 090105014

Symptom:

Firewall blocks GRE packets between two Cisco routers.

Topology:

```

    /----DMZ(public IP)----Cisco router2(LAN:8.1.1.2)
    (lan:8.1.1.1)Cisco router1----(wan)ZW5--
    \---LAN
  
```

Condition:

- (1) In firewall, traffic between WAN & DMZ is allowed. And log is enabled for WAN --->DMZ.
- (2) Configure NAT only for lan to wan, no nat between dmz and wan.
- (3) Ping from 8.1.1.1 to 8.1.1.2 to start the tunnel, tunnel could not be built up and ping failed, no log is shown
- (4) If tunnel has been built up already, ping from 8.1.1.1 to 8.1.1.2 failed, no log is shown
- (5) If firewall is disabled, problem disappeared

10. [BUG FIX] SPR ID: 090121708

Symptom:

Fail to build VPN tunnel after SA lifetime expires.

Topology:

```

    PC-----(L)NAT router(W)----(L)DUT(W)---Internet
    (ZyXEL VPN Client)
  
```

Condition:

- (1) Get ZyXEL VPN client from ftp://ftp.zyxel.com/ZyWALL_IPSec_VPN_Client/software/ZyWALL_IPSec_VPN_Client_2.0.204.61.07.zip
- (2) ZyXEL VPN client build VPN tunnel with DUT using NAT traversal.
- (3) After phrase1 SA lifetime expires, can not build tunnel between them successfully.

12. [BUG FIX] SPR ID: 090305574

Symptom:

PC1 gets request timeout when doing nslookup using ZyWALL A as the DNS proxy.

Topology:

```

    PC1---(L)ZyWALL-----A(W)tunnel-----(W)ZyWALL B(L)---DNS Server
  
```

Condition:

- (1) Build VPN tunnel between ZyWALL A and ZyWALL B.
- (2) Configure ZyWALL A as DNS Server of PC1.
- (3) On ZyWALL A, edit web eWC/DNS, add a new NS record before the first record. (Domain Zone = *, Private DNS Server = IP of "DNS Server").
- (4) On "DNS Server", add an Address Record.

(FQDN = "aaabbbcc.china.com", IP Address = "192.168.2.33").

(5) On PC1, do nslookup "aaabbbcc.china.com", the result is request timeout.

Modifications in V 4.04(WZ.3) | 11/04/2008

Modify for formal release.

Modifications in V 4.04(WZ.3)b2 | 10/29/2008

1. [FEATURE CHANGE]

WAS: Support URL link to bluecoat.
IS: Remove URL link to bluecoat

2. [BUG FIX] SPR ID: 081023045

Symptom: Device often can't work when its CF buffer reduces to a low value.

Condition:

(1) ZW70 F/W 4.04(WM.3)b1 can't work in PQA LAB during several hours. Restart the device, it can work fine.

(2) Root cause: The CF buffer will reduce to 10 after LAN PC login a large number of websites; it's the side effect of bug fix 080707244.

Modifications in V 4.04(WZ.3)b1 | 10/15/2008

3. [ENHANCEMENT]

Support the service provider 3322 DDNS.

4. [ENHANCEMENT]

Add an option "Allow users to disable Internet access" to control whether LAN users can disable Internet Connection.

5. [FEATURE CHANGE]

WAS: CI "sys firewall dynamicrule display" can't be used when device debug flag is 0.

IS: CI "sys firewall dynamicrule display" can be used but hidden when device debug flag is 0.

6. [FEATURE CHANGE]

WAS: The SA monitor in IPSec Algorithm column shows info like "ESP AES--SHA1", and CI "ipsec show sa" could only show encryption algorithm like AES.

IS: The SA monitor in IPSec Algorithm column shows info like "ESP AES128--SHA1", and CI "ipsec show sa" could show encryption algorithm like AES128.

7. [FEATURE CHANGE]

WAS: "Anti-Spam Trial" is allowed to be registered and used

IS: "Anti-Spam Trial" is not allowed to be registered

8. [FEATURE CHANGE]

WAS: First DNS server for DHCP client is “From ISP”
IS: First DNS server for DHCP client is “DNS Relay”

9. [BUG FIX] SPR ID: 080905612

Symptom:

After synchronization with same NTP server on PC and ZyWALL, the time on ZyWALL is always 5 seconds later than PC time.

Topology:

PC----- (L) ZyWALL (W) ---Internet

Condition:

- (1) Restore to default romfile, login Web page.
- (2) Edit eWC/MAINTENANCE/Time and Date, Time Protocol=NTP(RFC-1305), Time Server Address="time.stdtime.gov.cn", then click “Synchronize Now”.
- (3) PC also synchronizes with the Time Server (“time.stdtime.gov.cn”).
- (4) Compare the PC with ZyWALL, the time on ZyWALL is always 5 seconds later than PC time.

10. [BUG FIX] SPR ID: 080813923

Symptom:

After setting static wan IP address, release/renew device’s IP address, the route table is not correct.

Condition:

- (1) In eWC>WAN page, set static IP address “172.25.22.220”, its gateway is “172.25.22.254”.
- (2) In SMT, input CI “ip dhcp enif1 client release” and “ip dhcp enif1 client renew”.
- (3) In SMT, input CI “ip r s”. There is no default route, so the route table is wrong.

11. [BUG FIX] SPR ID: 071121415

Symptom:

When 3CX phone A calls another 3CX phone B(enable sip ALG), the console will display some information.

Topology:

3CX Phone A----- (L) ZyWALL (W)----- 3CX Phone B----SIP Server

Condition:

ZyWALL:

- (1) Set with CI command "sys romr|y"
- (2) Set with CI command "ip alg enable SIP_ALG"
- (3) Set firewall=disabled

3CX Phone A:

- (1) 3CX Phone A registered to SIP server.

3CX Phone B:

- (1) 3CX Phone B registered to SIP server

When 3CX phone A calls another 3CX phone B, the console display some information:

memcpy size is different from malloc size !!!
tszie=00000323

mszie=00000324

12. [BUG FIX] SPR ID: 080825919

Symptom:

HTTP Service can't be detected when using http upload.

Condition:

- (1) Enable AV, enable Zip file scan, Active HTTP, select direction WAN->LAN, then Apply.
- (2) Edit SMT 24.8, set with CI command “av load”, “av config httpPost on”, “av save”.
- (3) Setup http server on LAN PC. HTTP Upload eicar.com and eicar_com.zip from WAN pc to HTTP Server (you can get these files from http://www.eicar.org/anti_virus_test_file.htm).
- (4) Go to LOGS page, there is no log related to eicar. And eicar.com and eicar_com.zip aren't destroyed.
- (5) Repeat step 1~2, specially select direction LAN->WAN. Upload zip file, there is a log HTTP Virus infected - ID: xxxxxx,(W1->L), and the Zip file is destroyed. But file eicar.com still has not been detected.

13. [BUG FIX] SPR ID: 080813926

Symptom:

Under certain condition, input CI "ip cf externalDB unratedweb", the status of "unrated status" setting displayed is wrong.

Condition:

- (1) In SMT, input CI "ip cf policy insert 1", "ip cf policy config name 1", "ip cf policy config ipGroup add 1 192.168.1.100", "ip cf policy config webControl category block 61" to set up one CF policy, then save it by "ip cf policy save".
- (2) In SMT, input "ip cf externalDB unratedweb", the status of "unrated status" is "Unrated web site action: Block + Not Log", but in fact, the function of block "unrated" page is not enabled, so the status log is wrong. And in page eWC>CONTENT FILTER>General, the status of "unrated" is right.

14. [BUG FIX] SPR ID: 080827211

Symptom:

The background color of DNS system needs to be consistent.

Condition:

- (1) Enter page eWC>ADVANCED>DNS, Name Server Record
- (2) Check rows of Name Server Record, the background color is inconsistent in the last line.

15. [BUG FIX] SPR ID: 080925987

Symptom:

An UPnP rule is lost when uTorrent 1.8 is used.

Topology:

PC-----ZyWALL-----Internet

Condition:

- (1) Switch on UPnP of ZyWALL.
- (2) Open uTorrent 1.8 to download some files.
- (3) In eWC>ADVANCED>UPnP>Ports, there is only one port mapping rule of uTorrent, of which protocol is UDP. And no TCP port mapping rule appears. In fact, there should be two port mapping rules of uTorrent, one TCP rule and one UDP rule.

Modifications in V 4.04(WZ.2) | 09/10/2008

Modify for formal release.

Modifications in V 4.04(WZ.2)b2 | 09/04/2008

- 1. [BUG FIX] SPR ID: 080827154

Symptom: After flush route table, RIP doesn't work.

Condition:

- (1) Rom reset DUT
- (2) LAN PC generate rip packages, package number > 128
- (3) CI "ip route st", we can see the new routes
- (4) CI "ip route flush"
- (5) LAN PC generate rip packages again, package number > 128
- (6) CI "ip route st", there are no route information.

- 2. [BUG FIX] SPR ID: 080827213

Symptom:

- (1) When test the BT stress, the DUT crash
- (2) When test DUT DNS proxy function with Spirent Avalanche, DUT will hung.

Condition (1):

- 1. DUT gets IP dynamically
- 2. PC set DUT as its DNS server
- 3. DUT enables "cache negative" in eWC/DNS/Cache page
- 4. Download files by BT
- 5. Power off the power when run a period of time
- 6. Then turn on the power, the DUT crash

Condition (2):

- 1. Configure DUT's DNS server as an unreachable one.
- 2. Attach Spirent Avalanche to DUT LAN, configure DUT as its DNS server
- 3. Start the Spirent Avalanche to generate lots DNS queries to DUT.
- 4. After a while, DUT will hang and reboot itself.

- 3. [BUG FIX] SPR ID: 080827209

Symptom: The release note is inconsistent with SPR

Condition:

For about the bug SPR ID: 080523448 can't build VPN tunnel after SA lifetime expires, the topology is wrong in release note, that is inconsistent with SPR, it need update.

- 4. [BUG FIX] SPR ID: 080903404

Symptom: Upload FW to 4.04 patch 2 b1, High and severe IDP signatures ARE NOT LOGGED BY DEFAULT

Condition:

- 1) Upload the 4.04 pre-version FW, for example, 4.04 patch1 and reset to default romfile
- 2) Update the signature
- 3) Upload the 4.04 patch 2 FW
- 4) High and severe IDP signatures ARE NOT LOGGED BY DEFAULT, even update the latest version signature

Modifications in V 4.04(WZ.2)b1 | 08/20/2008

1. [ENHANCEMENT]

Enhance DNS proxy to support random transaction id and random source port.

2. [BUG FIX] SPR ID: 080523447

Symptom: Can't build VPN tunnel after SA lifetime expires.

Topology:

PC----- (L) NAT (W) ----- (W) ZyWALL (L) ---Internet
(ZyXEL VPN Client)

Condition:

- (1) ZyXEL VPN client build VPN tunnel with ZyWALL using NAT traversal.
- (2) After phase1 SA lifetime expires, cannot build tunnel between them successfully.

3. [BUG FIX] SPR ID: 080704186

Symptom: Query a non-exist domain name always show timeout when DNS server returns 'no such name'.

Topology:

PC with Linux--- (L) ZyWALL (W) ---DNS server

Condition:

- (1) Go to eWC>ADVANCED>DNS>System, only configure ZyWALL with one user-defined DNS server, confirm NO default server.
- (2) Configure ZyWALL works as DNS proxy.
- (3) Enter command in Linux shell: "date;host www.noexist2345.com;date" will display like following after 10seconds later:
Fri Mar 21 17:30:40 CST 2008
;connection timed out;no servers could be reached
Fri Mar 21 17:30:40 CST 2008

4. [BUG FIX] SPR ID: 080718238

Symptom: ZyWALL 5 crashes when customer tries to receive some specific mails.

Topology:

Mail client----- (LAN) ZW5 (WAN) ---external mail server

Condition:

- (1) Go to eWC>Registration, active ZyWALL Anti Spam service.
- (2) Go to eWC>Security>Anti-Spam >General, enable it. Check direction

WAN-LAN. Configure X-Header, Phishing Tag and Spam Tag

- (3) Go to eWC>Security>Anti-Spam> External DB, enable it and set the threshold to 0.
- (4) When client receives a specific mail, ZW5 would crash.
- (5) Description of an example mail:
The mail body is NULL; the number of bits (including mail subject, "mail to", and "mail from") must be 217.

5. [BUG FIX] SPR ID: 080707264

Symptom: When set a port forwarding rule, can't configure LAN server ip 172.20.10.0.

Condition:

- (1) Configure the LAN subnet as 172.20.10.1/16.
- (2) Go to eWC>ADVANCED>NAT>Port Forwarding, configure one rule as following:
Name = test
Incoming port(s)= 2121
Port Translation = 2121
Server IP Address = 172.20.10.0
Confirm NO default server.
- (3) Click on Apply
- (4) Status bar display "Invalid IP Address!"

6. [BUG FIX] SPR ID: 080704181

Symptom: ZyWALL stops to respond SSDP discovery packets under some condition.

Topology:

Vista PC---- (L) ZyWALL

Condition:

- (1) UPnp service is enabled on Vista PC.
- (2) Go to eWC>ADVANCED>UPnP
Select Enable the Universal Plug and Play (UPnP) feature
Select Allow users to make configuration changes through UPnP
Select Allow UPnP to pass through Firewall
Server IP Address = 172.20.10.0
- (3) Click on Apply.
- (4) After the vista PC comes out of "sleep mode",
- (5) ZyWALL 2 Plus stops to respond SSDP discovery packets.

7. [BUG FIX] SPR ID: 080710742

Symptom: High and severe signatures ARE NOT LOGGED BY DEFAULT! Then alert cannot work correctly.

Condition:

- (1) Go to eWC>Security>IDP>Backup & Restore, click "reset" to default setting.
- (2) Go to eWC>Security>IDP>Signature, search signature by Severity, High and severe, the "alert" are on, but the "log" are not. And actually, "log" is not on, not alert can be generated for these matched attack.

8. [BUG FIX] SPR ID: 080710761

Symptom: Device will crash while Click a button on web page
<http://www.doxpara.com/>.

Topology:

PC----- (L) Device (W) -----Internet

Condition:

- (1) Manually appoint the DNS server of PC as the LAN IP of device.
- (2) Open web page "<http://www.doxpara.com/>" with IE or Firefox on PC.
- (3) Click the button "Check My DNS" on the web page, device will crash.

9. [BUG FIX] SPR ID: 080717141

Symptom: White list does not take effect.

Condition:

Condition 1:

- (1) Active CF service.
- (2) Add www.baidu.com, www.sina.com into eWC/SECURITY/CONTENT FILTER/Object/Trusted Web Sites
- (3) Delete www.baidu.com, then add www.google.cn, www.hao123.com into eWC/SECURITY/CONTENT FILTER/Object/Trusted Web Sites
- (4) Insert a profile, and add www.google.cn into this profile's trusted web sites, enable External DB
- (5) Access www.google.cn, it will be blocked.

Condition 2:

- (1) Active CF service.
- (2) Add www.baidu.com, www.google.cn, www.hao123.com into eWC/SECURITY/CONTENT FILTER/Object/Trusted Web Sites
- (3) Delete www.baidu.com.
- (4) Insert a profile, and add www.hao123.com into this profile's trusted web sites, enable External DB
- (5) Access www.hao123.com, it will be blocked

Modifications in V 4.04(WZ.1) | 06/26/2008

Modify for formal release.

Modifications in V 4.04(WZ.1)b2 | 06/18/2008

1. [BUG FIX] SPR ID: 080602081

Symptom: ZyWALL crashed when upgrading IDP signature.

Condition:

- (1) Enable IDP, select all directions check.
- (2) Use IDP test tool to test ZyWALL
- (3) Do IDP signature upgrading, ZyWALL will crash during upgrading

2. [BUG FIX] SPR ID: 080606478

Symptom: can't build PPTP tunnel through ZyWALL.

Topology:

PC-----(L)ZyWALL(W)-----PPTP Server
(PPTP Client)

Condition:

- (1) Setup PPTP server on Redhat Linux.
- (2) Create PPTP client on PC with Windows XP OS.
- (3) Connect PPTP client with PPTP server, sometimes can't connect it.

3. [BUG FIX] SPR ID: 080530974

Symptom: ZyWALL crash as a DNS proxy when the external DNS is unavailable after several days

Condition:

Topology: PC----- (L) Device (W) -----Internet

- (1) Reset device's configuration file.
- (2) eWC>>WAN>>WAN1, Configure device's WAN as "Use Fixed IP Address", so it wouldn't get DNS server by DHCP.
- (3) eWC>>Advanced>>DNS>>system. Add a user-defined "Name Server Record" dns server, which in fact doesn't exist
- (4) eWC>>Advanced>>DNS>>DHCP, Configure LAN "First DNS Server " as user-defined 192.168.1.1
- (5) On PC, ipconfig/release and ipconfig/renew, then the PC's DNS server would be 192.168.1.1
- (6) Then PC sends some DNS query, some memory will be leaked on device When the limit is reached in device, the device will be restarted.

4. [BUG FIX] SPR ID: 080519030

Symptom: The enhancement feature needs update

Condition: Add a CI command to configure filter set for each channel in bridge mode.

(1)CI command "device channel filter"

The eg included Usage will show: device channel filter enet0 inDevSet 1 2 3 4, it should be show"device channel filter enet0 inDev 1 2 3 4,"

(2)"device channel filter enet0 display"

the display info should not include"Output Device Filter Sets=255 255 255 255"

5. [BUG FIX] SPR ID: 080528754

Symptom: in UTM report, the word"module" under system information should be changed to" model"

Condition:

- (1) Enable report mail function
- (2) Click"send mail now"

(3) The word"module" in report about system information should be changed to"model"

6. [BUG FIX] SPR ID: 080509437

Symptom: ZyWALL 35 fails to build IPSec VPN with Checkpoint for ID mismatch.

Topology:
ZyWALL 35(DUT)(W)---Internet--- (W)Checkpoint
Condition:
(1) Configure a static IPSec VPN rule on DUT for checkpoint. The Remote Gateway IP is checkpoint's WAN IP, the peer ID type is IP and peer ID content is "0.0.0.0".
(2) A corresponding rule is configured on Checkpoint. Its local ID content is "0.0.0.0".
(3) Dial VPN from ZyWALL 35, fail to build the tunnel for ID content mismatch.

Modifications in V 4.04(WZ.1)b1 | 05/16/2008

7. [ENHANCEMENT]
Add a CI command to configure filter set for each channel in bridge mode.
(1)"device channel filter enet0 inDev 1 2 3"
This command configures set 1, 2, 3 for the channel "enet0" incoming filter.
(2)"device channel filter enet0 display"
This command will show the filter sets for the channel "enet0"
8. [ENHANCEMENT]
DNS query via specified WAN interface.
9. [ENHANCEMENT]
Add bootp rule for DMZ and WLAN in default rom.
10. [ENHANCEMENT]
ZyWALL stops DyDNS function when ZyWALL gets the fatal error response from the DyDNS server.
And ZyWALL logs this event periodically.
Users must re-configure the DyDNS settings to re-enable DyDNS function.
11. [FEATURE CHANGE]
WAS: When choosing "Use WAN IP Address" as IP Address Update Policy,ZyWALL will send check IP packet to checkip.dyndns.org when interface is up and get any IP address.
IS: When choosing "Use WAN IP Address" as IP Address Update Policy,ZyWALL will send check IP packet to checkip.dyndns.org when interface is up and get different IP address with last time.
12. [BUG FIX] SPR ID: 071224368
Symptom: There's ping response delay when use a domain name as smtp server in log setting.
Condition:
PC--- (LAN) ZyWALL35 (WAN1) -----Internet
(1) Set smtp.163.com as mail server address in Log Setting. Configure the other information of E-mail setting (You can create an email account of 163 mail) which DUT can send the mail successfully.

- (2) Select the log schedule as "When Log is Full".
- (3) Ping ZyWALL35's LAN port nonstop from the PC in LAN.
There will be high ping response delay from time to time.

13. [BUG FIX] SPR ID: 071228633

Symptom: Incoming ESP packets can't pass through ZyWALL with 1-1 NAT rule.
Condition:

PC1---ZWA(W)---(L)DUT(W)---(W)ZWB---PC2
|-----VPN-----|

- (1) Configure DUT as full-feature NAT; add a 1-1 rule on DUT for ZWA.
- (2) Configure VPN tunnel between ZWA and ZWB, NAT-T is disabled on ZWA and ZWB.
- (3) After tunnel is built successfully, PC2 can't ping to PC1, except PC1 ping to PC2 first.

14. [BUG FIX] SPR ID: 080131637

Symptom: IPSec Virtual Address Mapping for dynamic incoming rule doesn't work.
Condition:

TOPO:

VPN client=====	(W)ZW35(L)-----	PC
172.25.21.24	172.25.21.64	192.168.1.2

- (1) ZW 35 is configured with a dynamic rule.
Virtual IP 192.168.201.2, private IP 192.168.1.2, remote IP 0.0.0.0
- (2) VPN client is Greenbow.
- (3) After the tunnel is up, the Ping from VPN client and the reply is from the ZW35's WAN IP (172.25.21.24) instead of 192.168.201.2.

15. [BUG FIX] SPR ID: 080217402

Symptom: Cannot recognize service "PCAnywhere_Data(TCP5631)" in firewall rule.
Condition:

- (1) Reset to default romfile.
- (2) Go to eWC>FIREWALL>Rule Summary, then insert a new firewall rule.
- (3) In eWC>FIREWALL - EDIT RULE, fill in "Rule Name" and select service "PCAnywhere_Data(TCP5631)" to "Selected Service(s)" column.
- (4) Click "Apply".
- (5) In eWC>FIREWALL>Rule Summary, you can see the service change to "Any(TCP)".

16. [BUG FIX] SPR ID: 080221669

Symptom: CI command "ip nat incikeport" had been removed in firmware 4.03.
Condition:

- (1) Disable the engineer debug flag by "ATEN".
- (2) Execute CI "ip nat incikeport" will fail.

17. [BUG FIX] SPR ID: 080307371

Symptom: OIDs for VPN does not work. Even after tunnel has been up for a while and traffic has been passed, those OIDs just show 0 in all table.

Condition:

- (1) Set up topology: ZW70---internet--VPN--internet----ZW35(DUT)
- (2) Setup an SNMP server (software on PC) on ZW35 WAN subnet.
- (3) Add zyxel.mib and zyxel-zywall mib.
- (4) Dial up VPN on DUT, generate some traffic through VPN.
- (5) From the SNMP server, it's observed that following OIDs are always 0:

vpnTunnelTxPktCnt .1.3.6.1.4.1.890.1.6.1.3.1.1.3

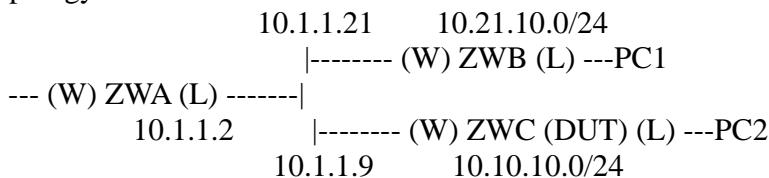
vpnTunnelTxPktSize .1.3.6.1.4.1.890.1.6.1.3.1.1.4
vpnTunnelRxPktCnt .1.3.6.1.4.1.890.1.6.1.3.1.1.5
vpnTunnelRxPktSize .1.3.6.1.4.1.890.1.6.1.3.1.1.6
vpnTunnelDisPktCnt .1.3.6.1.4.1.890.1.6.1.3.1.1.7
vpnTunnelDisPktSize .1.3.6.1.4.1.890.1.6.1.3.1.1.8

18. [BUG FIX] SPR ID: 080313746

Symptom: PC at LAN B can't ping to PC at LAN C.

Condition:

Topology:



(1) ZWA LAN: 10.1.1.0/24, ZWA as a NAT router

ZWB WAN: 10.1.1.21 LAN:10.21.10.0/24, ZWB as a pure router

ZWC(DUT) WAN: 10.1.1.9 LAN: 10.10.10.0/24, ZWC as a pure router

On ZWA goto eWC>SECURITY>FIREWALL

Disable Allow Asymmetrical Route

goto eWC>ADVANCED>STATIC ROUTE, add following static route

Name Active Destination Gateway

LAN-C Yes 10.10.10.0/255.255.255.0 10.1.1.9

LAN-C	Yes	10.10.10.0 / 255.255.255.0	10.1.1.5
LAN-B	Yes	10.21.10.0 / 255.255.255.0	10.1.1.21

On ZWB goto eWC>ADVANCED>STATIC ROUTE, add following static route.

Name	Active	Destination	Gateway
------	--------	-------------	---------

Name	Active	Destination	Gateway
LAN B	Yes	10.10.10.0 / 255.255.255.0	10.1.1.9

On ZWC goto eWC>ADVANCED>STATIC ROUTE, add following static route.

Name	Active	Destination	Gateway
------	--------	-------------	---------

LAN-C Yes 10.21.10.0 / 255.255.255.0 10.1.1.21

(2) PC1 begin to ping PC2, can't receive any reply from PC2.

19. [BUG FIX] SPR ID: 080303009

Symptom: Device crashes when plug with G100 wireless card.

Condition:

- (1) Get NBG460N(version: 3.60(AMX.0)b0) and load attachment romfile.
- (2) Active wireless with ZyWALL.(with G100 wireless card)
- (3) Device keeps crashes

20. [BUG FIX] SPR ID: 080118954

Symptom: Visited web sites can be rated as Personals/Dating category, but that still are forwarded even enabled Personals/Dating checkbox.

Condition:

- (1) Make sure CF external DB can work.
- (2) Block Personals/Dating category in eWC>CONTENT FILTER>EDIT POLICY>EXTERNAL DATABASE.
- (3) For 24open.ru, flirtru.ru and mamba.ru, "Test Against Internet Server", they are rated as Personals/Dating category, but the action is still forward.

21. [BUG FIX] SPR ID: 080423038

Symptom: ZyWALL use "0.0.0.0" as my IP address in IKE SA when the WAN IP address is not available.

Condition:

Topology:

PC1--(LAN)ZyWALL2+(PPPoE)--Cisco2811(LAN)---PC2

- (1) Build VPN from ZyWALL2+ to Cisco2811.
- (2) Change the RIP item in WAN of ZyWALL2+ and Apply. Then it will try to get the new WAN IP address.
- (3) Sometimes ZyWALL2+ will use "0.0.0.0" as my IP address during the IKE negotiation.

22. [BUG FIX] SPR ID: 080430427

Symptom: ZyWALL 70 keeps on reboot in 5 minutes to 2 hours when AS is enabled.

Condition:

Topology:

Mail server--(LAN)ZW70(WAN)--internet

- (1) ZW70 enable AS check for spam mail.
- (2) ZW70 always crash
- (3) Fail to reproduce this issue on local side

23. [BUG FIX] SPR ID: 080428237

Symptom: Fail to dial into the sip phone when the packets generated from SIP provider are fragmented.

Condition:

Topology:

SIP phone 1-----SIP server----- (WAN) ZyWALL (LAN) ----- SIP phone 2
SIP phone 1, SIP server and ZyWALL WAN are in same subnet.

- (1) SIP phone1 is a software (3CX phone)installed in one PC, change the PC's MTU to 800.
- (2) SIP server is "ser" installed on Linux OS, also change this server's MTU to 800
- (3) Turn SIP ALG on ZyWALL.
- (4) Change the ZyWALL's WAN and LAN interfaces' MTU to 800 with CLI "ip ifconfig" such as "ip ifconfig enif0 192.168.1.1 mtu 800"
- (5) When SIP phones are registered, then SIP phone 1 fails to call SIP phone 2. It's observed that the "INVITE" packet is fragmented on SIP phone 1.

24. [BUG FIX] SPR ID: 071107515

Symptom: Some special URLs cannot be deleted in the content filter cache.

Condition:

- (1) On eWC>REGISTRATION > Registration, register Content Filter service.
- (2) On eWC>SECURITY>CONTENT FILTER>General, enable Content Filter.
- (3) On eWC>SECURITY>CONTENT FILTER>Policy, add a policy "policy" for any ip address and active it.
- (4) On eWC>SECURITY>CONTENT FILTER>Policy, enable External DB for "policy", and enable "Select All Categories".
- (5) A cache will be created when LAN host accesses "webpresence.qq.com/getonline?type=1&31008201:31008202:"
- (6) Host on the LAN accesses "www.sina.com.cn".
Another cache "ad4.sina.com.cn/sina/ae/ad_src/popup/pops1.html?v; swf;http://d1.sina.com.cn/200712/25/120149_hp-pop.swf" is created.
- (7) It's impossible to delete the two items except flush all caches.

25. [BUG FIX] SPR ID: 071109695

Symptom: Idle timeout will be changed to 0 while enable Traffic Redirect by GUI
Condition:

- (1) Edit eWC> WAN> WAN1, Set Encapsulation= PPPoE & Idle Timeout= 100.
- (2) Edit eWC> WAN> Traffic Redircet, active Traffic Redirect.
- (3) Check eWC> WAN> WAN1, Idle Timeout change to "0", it should be 100.

26. [BUG FIX] SPR ID: 080416752

Symptom: ZyWALL will crash during downloading zip files.

Condition:

- (1) Reset to default romfile.
- (2) Go to eWC>SECURITY>ANTI-VIRUS,
Select Enable Anti-Virus
Select Enable ZIP File Scan

Service configuration:

Select Active FTP Service, Direction: LAN->WAN1, and WAN1->LAN

(3) Using some ftp client in ZyWALL LAN side to download 4 zip files located at <ftp://ftp.zyxel.com/NWA-3500/firmware/> at the same time.

(4) ZyWALL will crash during downloading files.

27. [BUG FIX] SPR ID: 080318099

Symptom: In DMZ web help, there is not description for "Windows Networking (NetBIOS over TCP/IP)". This is different from LAN and WLAN.

Condition:

In DMZ web help, there is not description for "Windows Networking (NetBIOS over TCP/IP)". This is different from LAN and WLAN.

28. [BUG FIX] SPR ID: 080318101

Symptom: When "idp tune config l4Tcpcksum on", the dut can't work normally.

Condition:

(1) CI "sys romr|y"

(2) eWC>>security->idp, enable idp, protected traffic direction=lan->wan, wan->lan

(3) Ftp wan side ftp server successfully. And open <http://www.163.com> successfully.

(4) Edit SMT 24.8, set with CI command

"idp tune load"

"idp tune config l4Tcpcksum on"

"idp tune save"

(5) Fail to connect wan's ftp server and fail to open <http://www.163.com>.

29. [BUG FIX] SPR ID: 080318065

Symptom: ZyWALL 70 crash in PQA lab with CF enabled

Condition:

(1) eWC>>Registration, Register and active CF license.

(2) eWC>>Security>>Content Filter, enable Content Filter, enable External DB.

(3) PC on LAN, begins to run "thunder 5"(latest version)

(4) ZyWALL will crash each time PC begins to run "thunder 5"

30. [BUG FIX] SPR ID: 080411533

Symptom: The information of destination and source ip are incorrect in AV report statistics

Condition:

(1) Enable av, enable zip file scan, service=http, protected traffic direction=WAN1 to LAN

(2) REPORTS->Anti-Virus, enable collect statistics

(3) Use HTTP download a zip anti-virus, you will see the AV info in Statistics:

Top entry by virus name =EICAR-Test-File, Top entry by source=192.168.1.34,

Top entry by destination=172.25.25.15,

in fact, the source IP and destination IP should be exchanged.

Modifications in V 4.04(WZ.0)C0 | 03/28/2008

Modify for formal release

Modifications in V 4.04(WZ.0)b5 | 03/21/2008

1. [BUG FIX] SPR ID: 080313755

Symptom: ZyWALL SMT menu refreshes continually after upgrade firmware from 4.02 to 4.04.

Condition:

- (1) Upload 4.02 firmware to DUT and then reset to factory default.
- (2) Then Upgrade the firmware to 4.04.
- (3) The SMT menu refreshes continually and can not be stopped.

2. [BUG FIX] SPR ID: 080312702

Symptom: DDNS hostname has been blocked for abuse.

Condition:

- (1) Use DDNS's Service Provider= WWW.DynDNS.COM.
- (2) Put the device there and the hostname has been blocked for abuse by Service Provider.

Modifications in V 4.04(WZ.0)b4 | 02/27/2008

3. [ENHANCEMENT]

Enlarge the length of "User Name" in E-mail Report, Log Settings and Diagnostics from 32 to 64.

4. [ENHANCEMENT]

Add CI for changing the CF log server hyperlink manually.

5. [BUG FIX] SPR ID: 080110436

Symptom: ZyWALL with 4.03 can't track WEB and some other protocols properly on log.

Condition:

- (1) Add device in VRPT.
- (2) Enable "Send Raw Traffic Statistics to Syslog Server for Analysis" in eWC>>REPORTS>>Traffic Statistics.
- (3) Go to eWC>>LOGS>>Log Settings, set Syslog Server to VRPT server IP.
- (4) Don't configure Custom Application.
- (5) Make some traffic, HTTP, FTP, Telnet...
- (6) Wait few minutes, go to Traffic>>Bandwidth>>Top Protocols, you will see logs which protocol is "unknown".

6. [BUG FIX] SPR ID: 070621282

Symptom: Strange IP show in SMT menu24.8.

Condition:

- (1) Set WAN to PPTP mode and dial up.

- (2) Goto SMT menu24.8, key command “d d 1” to dail PPTP again.
- (3) Get information “Remote node [WAN 1] is connected, IP is dd783c36”.
- (4) The IP is strange.

7. [BUG FIX] SPR ID: 080122128
Symptom: Some action in CF is wrong.
Condition:

- (1) CF>General, disable Unrated Web Pages & When Content Filter Server Is Unavailable
- (2) Insert a policy, enable external DB, and choose a Category
- (3) Flush cache
- (4) Opens a page which will be rated as Unrated, such as "172.25.21.80".
- (5) Then open this page again, it is blocked, and we can see URL in cache but no log about this block action. And it shouldn't block it since we didn't select to block unrated web pages.

8. [BUG FIX] SPR ID: 080115722
Symptom: IDP signature default configuration is wrong.
Condition:

- (1) Restore default romfile and plug with turbo card.
- (2) Register with device and upload latest signature.
- (3) Query with IDP signature ID with "8000015" and the log action is "No" but it should be "Yes".

9. [BUG FIX] SPR ID: 080203080
Symptom: Token can't be correctly set to the device.
Condition:

- (1) For ZyWALL (4.04 patch0 b3), register this device to the CNM 3.0 Patch2 b2 (3.0.00.61.02b2).
- (2) Go to page of Device Configuration > Advanced > DNS > DDNS, selected Service Provider=WWW.REGFISH.COM, Username=ZyXEL_Sec_PM, Password=zyxelsecpm, Token=f791246515820be8521997385cdca106, Domain Name=zyxelsecpm.org, Wildcard=true, WAN Interface=WAN1, IP Address Update Policy=Use User-Defined, IP Address=172.25.17.77, click Apply.
- (3) Check in ewc, value of Token became f791246515820be8521997385cdca10, only 31 characters, not 32.

10. [BUG FIX] SPR ID: 080217404
Symptom: Device hangs in some condition.
Condition:

- (1) Enable CF and external DB, select some categories.
- (2) Use BT software "Thunder" to download many movies.
- (3) Sometimes device will hang and crash dump printed on console.

11. [BUG FIX] SPR ID: 080124288
Symptom: some debug info display in SMT under special condition.

Condition:

- (1) Rom restores
- (2) On SMT24.8, input command: sys tos fwSchedule active on
- (3) In eWC>Firewall, add a rule on LAN to WAN, block TCP & FTP Services during 10:30~10:35.
- (4) Before 10:30, LAN pc connects WAN side FTP server, and upload a big file.
- (5) After 10:30, this connection will be dropped. This is right.
- (6) But after 10:35, when LAN pc tries to connect the FTP server again, some NAT debug info "natFreeSlotByIamt: Iamt Reference ERROR" displayed in SMT.
- (7) These debug info disappear after input command: sys tos fwSchedule active off

12. [BUG FIX] SPR ID: 08022166

Symptom: CI command "ip nat incikeport" had been removed in firmware 4.03.

Condition:

- (1) Disable the engineer debug flag by "ATEN".
- (2) Execute CI "ip nat incikeport" will fail.

Modifications in V 4.04(WZ.0)b3 | 01/31/2008

1. [ENHANCEMENT]

Apply Firewall schedule policy to existing connection.

2. [ENHANCEMENT]

Add "www.cerberian.com" and "sitereview.cwfservice.net" website into default trust domain.

3. [BUG FIX] SPR ID: 071022070

Symptom: When WAN restores connection, dial backup still will be triggered.

Condition:

- (1) Let WAN1 down and dial backup up
- (2) LAN PC downloads a file from WAN
- (3) During downloading, let WAN1 up
- (4) Then you will find ZyWALL still dial modem up three or more times

4. [BUG FIX] SPR ID: 071114969

Symptom: ZyWALL crashes due to IKE SA leaks

Condition:



- (1) Configure one IKE rule IKE1 in ZyWALL_DUT, set NAT Router as "Remote Gateway".

- (2) Add two IPSec rules under IKE1 in ZyWALL_DUT.

IPSec1: ZyWALL_DUT--ZyWALL1

IPSec2: ZyWALL_DUT--ZyWALL2

- (3) In ZyWALL1, configure IKE and IPsec rule. Enable Nailup. Make sure the tunnel can be built successfully.
- (4) In ZyWALL2, configure IKE rule and IPsec rule correctly except Pre-shared Key. Enable Nailup. Make sure the Tunnel couldn't build successfully.
- (5) After long time run, ZyWALL_DUT will crash because of IKE SA leak.

5. [BUG FIX] SPR ID: 071023165

Symptom: "send/recv" bytes in syslog are a minus number.

Condition:

- (1) Configure syslog server.
- (2) Enable REPORTS->SYSTEM REPORTS->Reports.
- (3) Download a file (file size is between 0xFFFFFFFF and 0x7FFFFFFF bytes) through the ZyWALL.
- (4) ZyWALL generates a syslog like following when finishing file download:
2007-10-12 16:58:31 Local1.Info 192.168.1.1 Oct 12 16:46:54
RAS src="192.168.1.33:3183" dst="172.25.21.112:21" msg="Traffic Log"
note="Traffic Log" devID="00134976F597" cat="Traffic Log" duration=11405
send=35786799 rcvd=-1813943960 dir="LAN:WAN" protoID=6 proto="ftp"
trans="Normal"

6. [BUG FIX] SPR ID: 071219091

Symptom: ZyWALL hungs when Nessus scan.

Topology:

PC1 with Nessus ---- (LAN) ZyWALL (DMZ) ----PC2 (192.168.4.33)

Condition:

- (1) Install Tenable Nessus 3 (you can get it at www.nessus.org) in PC1. Updates it's plug-in.
- (2) PC1 starts Nessus by the following steps:
 - (a) Start Scan Task.
 - (b) Input PC2 IP 192.168.4.33.
 - (c) Enable all plug-in with default settings (Even dangerous plug-in are enabled).
 - (d) Scan from the local host.
 - (e) Scan Now.
- (3) When scan finished, ZyWALL will hung.

7. [BUG FIX] SPR ID: 070614825

Symptom: Time zone is incorrect when user configures time in daylight saving time.

Condition:

- (1) EWC->MAINTENANCE->Time and Date.
- (2) Select Time Zone (GMT+03:00) Baghdad, Kuwait, Nairobi, Riyadh, and Moscow.
- (3) Enable daylight saving, configure current time to be in daylight saving.
- (4) Click on Apply.
- (5) Time zone of current time showing "GMT+04:00".
- (6) This problem also happens in EWC->HOME->System Information->System Time.

8. [BUG FIX] SPR ID: 071115009

Symptom: When adding a new sub-class with bandwidth budget = 0, can save, but cannot edit or delete.

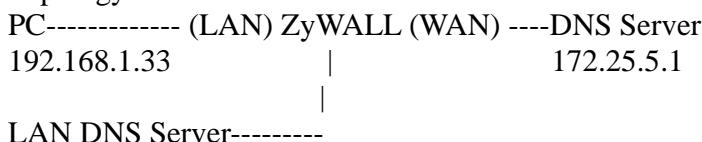
Condition:

- (1) Reset rom.
- (2) EWC>ADVANCED>BW MGMT>Summary, active bandwidth management on WAN1.
- (3) EWC>ADVANCED>BW MGMT>Class Setup, Add a sub-class with budget = 0 and enable bandwidth filter.
- (4) After click on Apply, it will display under "Enabled classes Search Order".
- (5) Unfolding tree of root class, can not find the new added sub-class.

9. [BUG FIX] SPR ID: 071115018

Symptom: Log of DNS will show wrong port number when LAN DNS server forwards DNS request to external server.

Topology:



LAN DNS Server-----

192.168.1.38

Condition:

- (1) Reset rom of ZyWALL.
- (2) Add a LAN to WAN firewall permit rule, select DNS service, Enable Log Packet Information When Matched.
- (3) EWC>SECURITY>FIREWALL>Threshold, Enable DoS Attack Protection on LAN.
- (4) Configured LAN DNS Server (192.168.1.38) as DNS proxy to forward DNS request to DNS server (172.25.5.1).
- (5) Set PC DNS server as 192.168.1.38, ping some internet domains. For example, ping www.google.cn.
- (6) EWC>LOGS, you will find some logs exist with LAN to WAN firewall rule of DNS service, but port is not 53.
- (7) EWC>SECURITY>FIREWALL>Threshold, Disable DoS Attack Protection on LAN, then the logs show correctly.

10. [BUG FIX] SPR ID: 071109678

Symptom: Under certain condition, the display of DHCP table is wrong. (For LAN, DMZ and WLAN)

Condition 1:

- (1) sys romreset
- (2) EWC>>LAN>>static DHCP, add a static DHCP mapping for PC1. PC1's MAC-->IP: 192.168.1.200
- (3) Attach PC1 to ZyWALL LAN port, PC1 can get IP 192.168.1.200.
- (4) EWC>>LAN>>static DHCP, delete the static mapping for PC1. Now, there is no

static DHCP mapping left.

- (5) Key in command ipconfig/release on PC1.
- (6) After PC1 release this IP successfully, check eWC>>Home>>DHCP table, "PC1's MAC-->IP: 192.168.1.200" is still showed on this page.

Condition 2:

- (1) sys romreset
- (2) EWC>>LAN>>static DHCP, add a static DHCP mapping for PC1. PC1's MAC-->IP: 192.168.1.200
- (3) Attach PC1 to ZyWALL LAN port, PC1 can get IP 192.168.1.200.
- (4) EWC>>LAN>>static DHCP, add another static mapping for some PC, eg, 00:11:22:33:44:55:66-192.168.1.201.
- (5) Check eWC>>Home>>DHCP table, "PC1's MAC-->IP: 192.168.1.200" disappears on this page.

11. [BUG FIX] SPR ID: 080108260

Symptom: In SMT menu 1, DDNS Service Provider FQDN should not be WWW.DynDNS.ORG.

Condition:

- (1) Enter SMT menu1.
- (2) Check DDNS information from SMT.
- (3) DDNS service provider should be WWW.DynDNS.COM, but not WWW.DynDNS.ORG.

12. [BUG FIX] SPR ID: 080109327

Symptom: Device crash when use ISS scan device.

Condition:

- (1) Use ISS scans device and device crashes.

13. [BUG FIX] SPR ID: 080108298

Symptom: The usage of CLI "ipsec pingCheckDropEnable" shows inconsistent explanation.

Condition:

- (1) Go to SMT 24.8.
- (2) Type CLI "ipsec pingCheckDropEnable".
- (3) It shows "Usage: ipsec pingCheckEnable on/off". It should be "Usage: ipsec pingCheckDropEnable on/off"

14. [BUG FIX] SPR ID: 080110463

Symptom: DDNS configuration can be set to device from CNM but cannot work.

Condition:

- (1) Register device (with 404 fw) to the CNM 3.0 Patch2 b1 (3.0.00.61.02).
- (2) Go to CNM "Device configuration>Advanced>DNS>DDNS", selected Service Provider=WWW.EuroDynDNS.com, Username=xxx, Password=xxx, Domain Name=test1.zyxel.com.es, Wildcard=true, WAN Interface=WAN1, IP Address Update Policy=Use User-Defined, IP Address=172.25.17.77, click Apply.Check

in ewc, all values are correctly set to the device.

(3) Login "www.eurodns.com" with the Username=xxx, Password=xxx. Click "My Domains" at the leftward, then click "DNS" icon. You will see "Hostname/Alias" named "test1" bind an IP Address, but this address is not 172.25.17.77. Also in ewc, there is not any log like "Update domain name test1.zyxel.com.es with IP:172.25.17.77 successfully".

(4) Do Step (2) in ewc, then check again according to Step (3). Now You will see "Hostname/Alias" named "test1" bind an IP Address 172.25.17.77. In ewc, there is a log "Update domain name test1.zyxel.com.es with IP:172.25.17.77 successfully".

15. [BUG FIX] SPR ID: 080109317

Symptom: CLI command "sys tos allow_FinPshAck" display wrong information in console.

Condition:

(1) Enter SMT 24.8, type "sys tos allow_FinPshAck", will display following wrong information: "Usage: Usage: sys tos block_FinPshAck [on | off]"

16. [BUG FIX] SPR ID: 071210446

Symptom: There's no log about unrated web sites in the log page under certain condition.

Condition:

(1) CI "sys romreset". Then register Content filter trial licence.

(2) Enable content filter. Then enable external Database Content Filtering. Enable log for unrated web pages but disable block for it.

(3) Create a policy which enables external Database service.

(4) Browse the web site "www.3dwuxi.com", there's no logs about unrated web sites in the log page.

17. [BUG FIX] SPR ID: 080114605

Symptom: ZyWALL can't send allowed CF log to CF report server

Topology:

PC---- (LAN) ZyWALL (WAN) ---- CF report server

Condition1:

(1) Register CF service on alpha.myzyxel.com

(2) Configure CF log server address using CLI command
"ip cf externalDB exDblogserver 220.128.56.38"

(3) Go to eWC>SECURITY>CONTENT FILTER>General, do following settings
Enable Content Filter = selected
Enable External Database Content Filtering = selected
Matched Web Pages, unselect Block, select Log
Enable Report Service = selected

(4) Go to eWC>SECURITY>CONTENT FILTER>Policy insert one policy,

(5) Go to eWC>SECURITY>CONTENT FILTER>EDIT POLICY>GENERAL, Active this policy, Address Setup = Any

- (6) Go to eWC>SECURITY>CONTENT FILTER>EDIT POLICY>EXTERNAL DATABASE
Active External Database Service Configuration
Select Categories: Search Engines/Portals
Click on Apply
- (7) Under lan pc, visit www.google.cn
- (8) Then view CF report using URL "<http://203.160.254.52?mac=0000AA780145>", you will find URL "www.google.cn" in blocked list. In fact, it should be in allowed list.

18. [BUG FIX] SPR ID: 071221273

Symptom: UTM command shows in non UTM products.

Condition:

- (1) Take a product which does not support UTM.
- (2) Input command "sys my" in SMT 24.8 and you can see the "asStatus" and "2In1Status" commands but it should not.

19. [BUG FIX] SPR ID: 080114618

Symptom: The policy route action is not correct.

Condition:

- (1) In GUI>WAN General page, enable Active/Active mode, algorithm=none.
- (2) Set WAN1 and WAN2 are both connected.
- (3) Edit web eWC>Policy Route; Aedit rule1:
Source Interface=LAN
Source Starting IP Address=192.168.1.31
Source Ending IP Address=192.168.1.60
Starting Port=20, Ending Port=21
Gateway / WAN Interface=WAN2
Use another interface when the specified WAN interface is not available=disable
- (4) When disconnect WAN2, PC (192.168.1.40) still can use FTP software to upload file to the public FTP server by WAN1. It seems not match policy route.

20. [BUG FIX] SPR ID: 080110425

Symptom: DDNS will not update after change the service provider.

Condition:

- (1) Setup the DDNS provider as DynDNS and make sure the WAN IP can be updated.
- (2) Change the service provider with No-IP and apply it.
- (3) Check with log and you can find the WAN IP will not update with No-IP service provider.

21. [BUG FIX] SPR ID: 080108275

Symptom: PA hyperlink cannot work.

Condition:

- (1) Load signature and make sure the IDP can works.
- (2) In eWC >> IDP >> PA, click the signature and it will link to a website and it always cannot find right policy for signature.

22. [BUG FIX] SPR ID: 080114612

Symptom: Dial Backup will be triggered even if traffic redirect works.

Condition:

Topology:

```
PC--- (LAN) ZyWALL (Dial Backup) ---Internet
          | (Traffic redirect)
          | (LAN) ZyWALL_B (WAN) ---Internet
```

- (1) Enable A/P mode for ZyWALL70 and make sure WAN2 is connected.
- (2) Configure traffic redirect on LAN interface to ZyWALL_B.
- (3) Configure Dial Backup and Budget = always on.
- (4) Configure ZyWALL as DNS proxy server for LAN PC. Then disconnect WAN2 and PC tries to access www.google.com.
- (5) Dial Backup will be triggered and WAN3 is up, but traffic goes out via traffic redirect interface to ZyWALL_B.

23. [BUG FIX] SPR ID: 080122128

Symptom: Some action in CF is wrong

Condition:

- (1) CF/General, disable Unrated Web Pages & When Content Filter Server Is Unavailable
- (2) Insert a policy, enable external DB, and choose a Category
- (3) Flush cache
- (4) LAN pc successfully opens a page which will be rated as unrated, such as “172.25.21.80”.
- (5) Then open this page again, it is blocked, and we can see URL in cache but no log about this block action. And it shouldn't block it since we didn't select to block unrated web pages.

24. [BUG FIX] SPR ID: 080122111

Symptom 1: log about CF>Customization is wrong

Condition 1:

- (1) CONTENT FILTER/EDIT POLICY/CUSTOMIZATION, enable Keyword Blocking, and fill “baidu” in Keyword List
- (2) Flush the cache in CF.
- (3) LAN pc opens www.baidu.com.
- (4) The page is block, but in log, we can see “cache hit”, it is wrong because there is no URL in CF>Cache

Symptom 2: log about Restrict Web Features in CF>General is not right

Condition 2:

- (1) Active CF.
- (2) Insert a policy, CONTENT FILTER/EDIT POLICY/GENERAL, enable “Java” in Restrict Web Features
- (3) Open a java applet, the page is block, but in log can't see which Restrict Web Features is block

25. [BUG FIX] SPR ID: 080115675

Symptom: Back AV/IDP Signature fails.

Condition:

- (1) Register a device with Signature to CNM. In CNM: Configuration Management >> Signature Profile Management >> Backup & Restore click backup button to backup a Signature Profile.
- (2) Check backup Signature fail and can not configure device any more.

26. [BUG FIX] SPR ID: 080108247

Symptom: Doesn't support Device Log in CNM Patch1 b2.

Condition:

- (1) For ZyWALL, register this device to the CNM 3.0 Patch1 b2 (3.0.00.61.01).
- (2) After finished registration, check in Device Configuration. There is no feature "Device Log".

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27. [ENHANCEMENT]

Enhance VPN:

- (1) When device be VPN initiator and responder can't receive device's quick mode last packet, device will receive the last quick mode packet from responder repeatedly.
WAS: Device would drop the repeated packet.
Is: Device will resend the last IKE quick mode packet.
- (2) WAS: Only when VPN HA is enabled, device will drop the tunnel if VPN ping check packet retries reaches its limitation.
IS: If the following CI command is ON, then device will drop the tunnel if VPN ping check packet retries reaches its limitation.

If the command is OFF, device will behave like WAS case. We add CI command for this:

ipsec pingCheckDropEnable on/off

- (3) Add 2 CI commands

ipsec pingRetryCnt [retries(1~10)]
ipsec pingPeriod [period(10~600)]

- (4) Remove ipsec ha command

ipsec ha pingRetryCnt [retries]

- (5) If VPN tunnel is rekeying, the old SA and the new one exists at the same time, the old SA will not send ping check packet.

28. [ENHANCEMENT]

Enhance TA agent:

- (1) Support Lionic IPS for Vantage CNM.
- (2) Fix crash bug while registering via CNM.

29. [ENHANCEMENT]

Enhance Agent to support CNM 3.0 Patch2

- (1) Support MAC/IP binding
- (2) Support VPN AES128/192/256 and DH5
- (3) Support DDNS multi service providers
- (4) Fix FC query memory overwrite issue
- (5) Change Feature code and version as CNM team request
- (6) Add 3G alert type
- (7) Support Logsetting MAC/IP Binding

30. [FEATURE CHANGE]

WAS: There were 12 signature categories in IDP.

IS: There are 10 signature categories in IDP.

Removed the "Porn" and "SPAM" signature category and reorder all the signature categories.

31. [FEATURE CHANGE]

Change the DDNS service provider FQDN:

WAS: WWW.DynDNS.ORG and WWW.EuroDynDNS.COM

IS: WWW.DynDNS.COM and WWW.EuroDNS.COM

32. [BUG FIX] SPR ID:071211543

Symptom: Device crashes with CI "sys mbuf dis cn".

Condition:

- (1) Input invalid CI with "sys mbuf dis cn" and device crashes.

33. [BUG FIX] SPR ID: 070726879

Symptom: ZyWALL doesn't forward "no answer section" to DNS client.

Condition:

- (1) Configure ZyWALL as DNS Server on Linux PC.
- (2) Execute "host -t MX www.playboy.com"
- (3) PC waits the response until timeout.
- (4) If DNS server is not ZyWALL, PC gets response immediately.

34. [BUG FIX] SPR ID: 080102004

Symptom: ZyWALL doesn't forward "no such name" response to DNS client.

Condition:

- (1) Configure ZyWALL as DNS server on PC.
- (2) PC resolves a nonexistent domain name, and it will wait response until timeout.

35. [BUG FIX] SPR ID: 071108567

Symptom: PC under WLAN port can't get IP from DHCP server!

Condition:

- (1) Config one port as WLAN.
- (2) Config WLAN interface as a DHCP server.
- (3) Disable firewall.
- (4) Attach a PC to WLAN port, and then you will find the PC can't get IP from the

ZyWALL.

36. [BUG FIX] SPR ID:071113829

Symptom: When create My Certificates, and the certificate name include spaces, The certificate can be created successful, the DUT didn't show error message, But this certificate can't be exported.

Condition:

- (1) Edit eWC>CERTIFICATES>My Certificates, create a certificate as Certificate Name="DUT IP" Host IP Address="192.168.12.100" Organizational Unit="DUT_IP" Organization="DUT_IP" Country="DUT_IP" Key Length="1024"
- (2) Then apply, it can be created successful, the DUT didn't show error message. Check web eWC>My Certificates, the DUT IP is on the table.
- (3) When export this certificate, it fails.

37. [BUG FIX] SPR ID: 071123546

Symptom: One field in Diagnostics page can't be changed by using Firefox.

Condition:

- (1) Use Firefox.
- (2) Go to eWC>MAINTENANCE>Diagnostics.
- (3) The field of CPU utilization can't be inputted.

38. [BUG FIX] SPR ID: 071203015

Symptom: The error message was shown incorrect in Remote Management page.

Condition:

- (1) Go to eWC>ADVANCED>REMOTE MGMT>SSH.
- (2) Input value 23 into Server Port field.
- (3) The status displayed "signature select successful" instead of "This port conflicts with the other server port".

39. [BUG FIX] SPR ID: 071120339

Symptom: The static DHCP rule can't be saved under special condition.

Condition:

- (1) Add a static DHCP rule at the end of the DHCP table.
- (2) Add the same MAC address with different IP address before the end rule, it shows "Duplicate MAC Address" message.
- (3) Delete the end rule added in step 1.
- (4) Add other different MAC address rule, and then apply. It can't be saved with the message "Duplicate MAC Address".

40. [BUG FIX] SPR ID: 071119256

Symptom: We can't search signatures by multiple Type attributes in IDP query page.

Condition:

- (1) Update signature.
- (2) Goto eWC>Security>IDP>Signature page, click "switch to query view".
- (3) In query page, select search by "Signature Search by Attributes" + Type file "IM +

P2P" and click apply.

- (4) In the search result, we can find P2P signatures only.

41. [BUG FIX] SPR ID: 071204069

Symptom: DUT updates with "use wan ip" option with "Regfish.com" fail when restarting.

Condition:

- (1) Reset device to default rom.
- (2) In DDNS page, select "www.regfish.com", use "wan ip update" option, fill in the requisite information.
- (3) Click "apply", DUT will update successfully.
- (4) Restart the DUT, guarantee that WAN IP of DUT is changed.
- (5) DUT updates the domain automatically fails.

42. [BUG FIX] SPR ID: 071120326

Symptom: The layout location of "Authentication Type" on web WAN1 and WAN2 are not consistent.

Condition:

- (1) Without 3G product.
- (2) Go to eWC>NETWORK>WAN>WAN1 & WAN2
- (3) Change Encapsulation as PPTP/PPPoE.
- (4) The layout location of "Authentication Type" is not consistent.

43. [BUG FIX] SPR ID: 071205211

Symptom: Change WAN port speed in bridge mode error.

Condition:

- (1) Reset default rom of the device, change it to bridge mode.
- (2) Enter SMT menu 24.8.
- (3) Using command to change WAN port speed.
ether edit load 2
ether edit speed 10/full
ether edit save
- (4) All traffic from LAN to WAN will be blocked.

44. [BUG FIX] SPR ID: 071113836

Symptom: Diagnostic mail "collect from/to" time is wrong, mail report "collect since" time is wrong when report of the feature is disabled.

Condition:

- (1) Enable Diagnostic in eWC>MAINTENANCE>Diagnostics and right configure "E-mail Settings".
- (2) Click "Perform Diagnostic Now".
- (3) You will receive the diagnostic mail. You will find "Data Collection is: From: Thu, 01 Jan 1970 00:00:00 +0800"
- (4) The same problem exists in IDP/AV/AS Mail Report.

45. [BUG FIX] SPR ID: 071120329

Symptom: Log for connectivity check fails Source IP and Destination IP should be NULL when domain name doesn't exist. Device shouldn't show the Destination IP of the last time ping.

Condition:

- (1) Goto eWC>Network>WAN>General.
- (2) Enable "Check WAN1 Connectivity", and let system PING 1.1.1.1 this IP.
- (3) Log show ping check fail, Source IP= WAN IP, Destination IP=1.1.1.1
- (4) Enable "Check WAN1 Connectivity" and let system PING "www.abcdefg123aabbcddd.com" which doesn't exist.
- (5) There is log for ping check fail, but, Source IP =WAN IP, Destination IP=1.1.1.1, so, log is incorrect. If you domain inexistent, Source IP and Destination IP should equal to NULL.

46. [BUG FIX] SPR ID: 071212607

Symptom: The PA's debug message shows in console even when IDP's reengine debug flag is off.

Condition:

- (1) Enable IDP for WAN->LAN direction. Configure all PA Signature to "Active, Log, Alert, Drop Packet".
- (2) Turn off the reengine and hwengine flag of IDP common debug.
- (3) Run BT under device LAN.
- (4) The console will show the message "PA Alert:1,97" when the PA signature matched.

47. [BUG FIX] SPR ID: 071212550

Symptom: When ZyWALL sends E-mail report via OpenVMS, the E-Mail can't display correctly. Some source codes of the E-Mail reports will display on GUI.

Topology:

ZyWALL (WAN) ---openVMS (mail server) ---exchange server---outlook 2003(mail client)

Condition:

- (1) Enable eWC>Reports>Traffic Statistics.
- (2) Enable eWC>Reports>IDP.
- (3) Enable eWC>Reports>Anti-Virus.
- (4) Enable eWC>Reports>E-mail report, configure following items:
eWC>E-Mail Settings>Mail server = mail.schumi.ch
eWC>Settings>Mail Sender = admin@ZyWALL70.home.schumi.ch
eWC>settings>Send Report to = your mail account
- (5) Generate some IDP, Anti-Virus and Anti-Spam traffics.
- (6) Clicking on eWC>Reports>E-mail report>Send Report Now.
- (7) Open the received E-Mail report on outlook 2003, you will find the E-Mail report can't display correctly.

48. [BUG FIX] SPR ID: 071212614

Symptom: Device crashes when doing IXIA stress testing.

Condition:

- (1) Doing IXIA stress testing with IDP/AV/AS/CF functionality and device will crash.

49. [BUG FIX] SPR ID: 071206262

Symptom: ZyWALL can't reply packet on correct WAN interface.

Condition:

PC(192.168.1.60)--(LAN)DUT--WAN1(192.168.5.33)---Router---PC(192.168.10.33)
|
|-----WAN2 (192.168.7.33)-----|

- (1) Set WAN=Active/Active mode, WAN1=192.168.5.33, WAN2=192.168.7.33.
- (2) Policy Route=Active, Source Address=192.168.1.60, Destination Address=0.0.0.0, Gateway=WAN2, Use another interface when the specified WAN interface is not available.
- (3) NAT 1-1 rule for WAN1: Local Start IP=192.168.1.60, Global Start IP=192.168.5.33.
- (4) NAT 1-1 rule for WAN2: Local Start IP=192.168.1.60, Global Start IP=192.168.7.33.
- (5) When WAN2 is down, policy route=active, from 192.168.10.33 can access 192.168.1.60 FTP server via WAN1.
- (6) When WAN2 is up, policy route = active, from 192.168.10.33 can't access 192.168.1.60 FTP server via WAN1.

50. [BUG FIX] SPR ID: 071211538

Symptom: The content of the mail sent by Diagnostic service is mess.

Condition:

- (1) Enable Traffic Statistics.
- (2) Enable E-mail Report, and configure the E-mail Setting. Select the Reporting Frequency by Hourly.
- (3) Enable Diagnostics and configure CPU usage 5. Select Diagnostics Frequency by Hourly.
- (4) Reboot the DUT. The content of Diagnostic mail will be messed.

51. [BUG FIX] SPR ID: 071224358

Symptom: We can't search signatures by multiple severity attributes in IDP query page.

Condition:

- (1) Update signature.
- (2) Go to eWC>Security>IDP>Signature page, click "switch to query view".
- (3) In query page, select search by Severity: "Severe + High" and click button "apply".
- (4) In the search result, we can't find any signatures.

52. [BUG FIX] SPR ID: 071204100

Symptom: The DDNS user agent information is not right when update IP to server.

Condition:

- (1) Register with WWW.EuroDNS.COM.
- (2) Use wireshark to capture the packets when DUT update DDNS.
- (3) The information of DDNS user agent shows
 "Allegro-Software-WebClient/4.51Zyxel p334/3.40(JJ.6)
 topping.tang@zyxel.cn\r\n" and the device is ZyWALL, not p334.

Modifications in V 4.04(WZ.0)b1 | 11/19/2007

- 1. [ENHANCEMENT]
 Add Protocol Anomaly (PA) in IDP.
- 2. [ENHANCEMENT]
 Enhance AV CI commands.
- 2. [ENHANCEMENT]
 Upgrade ZyXEL IDP solution.
- 3. [ENHANCEMENT]
 Add MAC/IP Binding feature.
- 4. [ENHANCEMENT]
 Add Mail Report function.
- 5. [ENHANCEMENT]
 Provide a ci command "sys tos allow_FinPshAck [on|off]" to allow or block packet with FIN, PSH, and ACK flag. Default is off, that is to say, blocking packet with FIN, PSH, and ACK flag.
- 6. [ENHANCEMENT]
 Device support Diffie-Hellman DH5 (length 192). For VPN configure,
 (1) GATEWAY POLICY page, key group adds DH5 element.
 (2) NETWORK POLICY page, Perfect Forward Secrecy (PFS) adds DH5 element.
- 7. [ENHANCEMENT]
 Device support AES192 & AES256. For VPN configure,
 (1) GATEWAY POLICY page, Encryption Algorithm "AES" change to "AES128",
 "AES192", "AES256" items.
 (2) NETWORK POLICY page, Encryption Algorithm "AES" change to "AES128",
 "AES192", "AES256" items.
- 8. [ENHANCEMENT]
 Support Multiple Dynamic DNS.
 Add 3 new dynamic DNS providers as follows:
 (1) NO-IP
 (2) EuroDynDNS
 (3) RegFish

9. [ENHANCEMENT]

Refine GUI layout.

- (1) eWC>LOGS>Log Settings, add a section for mail schedule.
- (2) eWC>MAINTENANCE>Diagnostics , add a section for mail schedule.
- (3) Merge eWC>REPORTS>System & Threat Reports to single item eWC>REPORTS in panel.
- (4) Refine eWC>REPORTS>E-mail Report layout.
 - (a) Change the wordings in GUI.
 - (b) Add a section for mail schedule.
 - (c) Add the time Collect Statistics since for each section in the mail.
 - (d) Add device name & sending time in the mail subject.
- (5) Refine eWC>REPORTS>Traffic Statistics.
 - (a) Add the time Collect Statistics since.
 - (b) Change the wording "Outgoing/Incoming" to "Tx to/Rx From" & "Egress/Ingress".
 - (c) Change the color to difference the direction.
 - (d) Switch the "Direction" & "IP address" in "Host IP Address" view.

10. [ENHANCEMENT]

Leverage TR069 codes from ZYNOS3.40 to USG trunk.

Was: ZyWALL can be managed by CNM Vantage Server, such CNM3.0.

Is: ZyWALL can be managed by CNM Vantage Server (SGMP and TR069) and Vantage Access (TR069 only)

Below items have been verified with Vantage Access:

- (1) Inform and Inform Response (Registration).
- (2) Periodic Inform.
- (3) Connection Request. (This needs to open a Dynamic Firewall Rule <sourceIP, destIP and Port are checked>.)
- (4) Get MethodListRPC, Get Name PRC, Get Value RPC, and Get Attribute RPC.

11. [FEATURE CHANGE]

WAS: There is a customer service "VPN_NAT_T (UDP: 4500)" in firewall service.

IS: We move the "VPN_NAT_T (UDP: 4500)" service from "Customer Service" to "Predefined Service".

We add the "VPN_NAT_T (UDP: 4500)" service into firewall WAN to WAN rule.

12. [FEATURE CHANGE] SPR ID: 070806425

WAS: Some IPSec network policies can be saved even they conflict with each other.

IS: Device will check network policies under two conditions:

- (1) To save a network policy under static IKE rule --> compare with other network policies under static IKE rules.
- (2) To save a network policy under dynamic IKE rule --> do not compare it. This network policy will be compared with other network policies under static and dynamic rules during IKE negotiation.

For more detail information, please refer to appendix 14.

13. [FEATURE CHANGE]

WAS: When CNM was ON, device's alerts will stop mailing to the configured alert receiver at LogSetting page.

IS: No matter CNM is ON or OFF, device's alerts will mail to the configured alert receiver.

14. [BUG FIX] SPR ID: 070725773

Symptom: Socket leakage problem.

Condition:

- (1) WAN configures as PPPoE, idle timeout is 10 sec.
- (2) Go to SMT 1, configures DDNS, and save them.
- (3) Do step (2) many times. Finally there will be shortage of sockets.
- (4) Then go to SMT 24.8, display socket by CI command "sys sock", you will see many socket leakage.

15. [BUG FIX] SPR ID: 070827751

Symptom: Can't add '*' Domain name record on DNS page via Vantage.

Condition:

- (1) Let ZyWALL register to Vantage.
- (2) Add a DNS record with empty Domain name.
- (3) CNM agent returns -22051 and set fail.

16. [BUG FIX] SPR ID: 071109669

Symptom: ZyWALL can't record system report based on IP address which is not in the same subnet of ZyWALL itself.

Condition:

Topology:

(Bridge mode)

PC----- (LAN) ZyWALL_A (WAN) ----ZyWALL_B----Internet

PC: 10.0.0.34

ZyWALL_A:192.168.10.40

ZyWALL_B (LAN):10.0.0.1, ip alias: 192.168.10.1

- (1) Enable Collect Statistics of ZyWALL_A under system reports.
- (2) PC visits a web page on the internet.
- (3) We can't see the statistics of host IP reports in ZyWALL_A.

17. [BUG FIX] SPR ID: 070828810

Symptom: The GUI display abnormal in firewall page.

Condition:

- (1) Go to eWC>SECURITY>FIREWALL>Rule Summary.
- (2) The "Modify" label in Rule Summary table is lower than others.

18. [BUG FIX] SPR ID: 070927476

Symptom: ZyWALL uses PC MAC address as the source MAC to send ESP/AH packets.

Condition:

(bridge mode) (NAT router) (router mode)
PC1----- (LAN) ZyWALL (WAN) ----VSG-1200----IPSec gateway-----PC2

- (1) Build a VPN tunnel between ZyWALL and IPSec gateway.
- (2) Ping PC2 from PC1.
- (3) Tunnel can be established, but no PING response.

19. [BUG FIX] SPR ID: 070927494

Symptom: Device Crash when Vantage gets the VPN manual rule with the single local address settings.

Condition:

- (1) Use device's GUI to set a VPN manual rule with the single local address settings.
- (2) Let device register to Vantage CNM.
- (3) Select "Synchronization" >> "Device Overwrites Vantage CNM" >> "Customize" >> "VPN", and then click apply.
- (4) Vantage doesn't receive the getting response message from device.

20. [BUG FIX] SPR ID: 071015791

Symptom: There is no log for connectivity check fail

Condition:

- (1) Go to eWC-->Network-->WAN-->General
- (2) Enable "Check WAN 1 Connectivity", and let system PING "www.aabbccddeeff.com" which doesn't exist.
- (3) There is no connectivity check fail log.

21. [BUG FIX] SPR ID: 071023276

Symptom: IDP CI "idp commonDebug display" show inconsistent information.

Condition:

- (1) In SMT 24.8, type CI "idp commonDebug display", there will be "bwengine off".
- (2) Type CI "idp commonDebug scanresult on" and "idp commonDebug display".
- (3) It shows "bwengine on".

22. [BUG FIX] SPR ID: 071023274

Symptom: In eWC>Reports, device cannot show IDP statistics correctly by Signature Name.

Condition:

- (1) Make sure IDP can work and get the latest signature from internet.
- (2) In eWC>REPORTS>IDP page, enable IDP statistics.
- (3) Active some IM login attamp (QQ, MSN) and PA signature. (signature name:ASCII-ENCODING & MULTI-SLASH-ENCODING). Test with QQ, MSN and BT and ensure the PA signature hits.

(4) In Reports>IDP page, select "Top Entry By Signature Name" and there is no related information.

23. [BUG FIX] SPR ID: 071013726
 Symptom: Wrong description with CI "sys update display"
 Condition:
 (1) Input CI "sys update display" and console shows "register server address xxxx" and "register server path xxxxx"
 (2) But the description should be "update server address xxxx" and "update server path xxxxx"

24. [BUG FIX] SPR ID: 071019008
 Symptom: WAN will lose the IP address when modify the metric of WAN.
 Condition:
 (1) Set the WAN1, WAN2 as ethernet encapsulation and get WAN IP address automatically from ISP.
 (2) Modify the WAN2 metric from 2 to 3.
 (3) Then the WAN2 IP address will lose and need to renew to get the IP address.

25. [BUG FIX] SPR ID: 071017898
 Symptom: Can't find IM signatures through Attack type IM in eWC>SECURITY>IDP>Signature.
 Condition:
 (1) Register UTM service from eWC>REGISTRATION>Registration.
 (2) Update signatures from eWC>SECURITY>IDP>Update.
 (3) Goto eWC>SECURITY>IDP>Signature, select attack type IM, but no IM signatures found.

26. [BUG FIX] SPR ID: 071011647
 Symptom: Bandwidth Management cannot control SIP P2P traffic.
 Condition:
 LAN: 192.168.1.1 WAN: 192.168.30.113
 P2002A-----ZyWALL-----P2002B
 192.168.1.39
 192.168.30.114
 ZyWALL:
 (1) Set with CI command "sys romr|y"
 (2) Set with CI command "ip alg enable SIP_ALG"
 (3) Firewall=disabled
 (4) Edit web eWC/NAT/Port Forwarding, WAN Interface=WAN1, index1/Active=enable, Aindex1/Name=sip, index1/Incoming Port(s) =5060-5060, index1/Server IP Address= 192.168.1.39
 (5) Edit web eWC/BW MGMT/Class Setup Interface=LAN, Add Sub-Class, Class Name= SIP, Bandwidth Budget=200, Priority=7, Enable Bandwidth Filter=enable, Service =SIP, Source & Destination IP Address = 0.0.0.0

P2002A

- (1) P2002A unregistered to SIP server
- (2) Configure SIP Server Address as 192.168.30.114

P2002B

- (1) P2002B unregistered to SIP server
- (2) Configure SIP Server Address as 192.168.30.113

Call from P2002B to P2002A, SIP rule's bandwidth can't be protected.

27. [BUG FIX] SPR ID: 070928582

Symptom: Device fail to register to Vantage server with CNM 3DES encryption key, when key is set via device's GUI.

Condition:

- (1) Use device's GUI to set CNM 3DES encryption mode and key, the key value will be changed after clicking button "apply".
- (2) Enable CNM active and let device send register request message to Vantage server.
- (3) Agent fails to receive any register response message from Vantage server.

28. [BUG FIX] SPR ID: 071101008

Symptom: The property field of eWC > CERTIFICATES>MY CERTIFICATE > DETAILS is gone.

Condition:

- (1) Go to eWC>CERTIFICATES>MY CERTIFICATE>DETAILS page and you will find the property field is gone.

Modifications in V4.03(WZ.0) | 11/07/2007

Modify for formal release.

Modifications in V 4.03(WZ.0)b5 | 10/29/2007

1. [ENHANCEMENT]

Add Vantage CNM device agent – 2.1.6(WM.0) which support Vantage CNM server – version 3.0.00.61.00.

2. [BUG FIX] SPR ID: 070924386

Symptom: CF schedule works abnormal.

Condition:

- (1) Enable CF. In CF>Object, add a Fobidden Website "www.google.com".
- (2) Add a new policy, set IP group as "Any" and add "www.google.com" to Forbidden website. Set Schedule as "Everyday from 09:00 to 17:00".
- (3) Open www.google.com in 17:01 ~ 17:59, the website still be blocked and that's wrong.

3. [BUG FIX] SPR ID: 070809666

Symptom: ZyWALL crashes when receive pop3 mail from WAN.

Conditions:

PC1---(192.168.100.33)router(192.168.1.33)---(LAN)ZyWALL(WAN1)---mailserver

- (1) Enable Anti-spam WAN1->LAN direction and external DB on ZyWALL.
- (2) Add a static route (dest 192.168.100.0/24, gateway 192.168.1.33) in ZyWALL.
- (3) PC1 user uses MS Outlook to receive mails.
- (4) ZyWALL crashes.

4. [BUG FIX] SPR ID: 070914803

Symptom: Dial Backup will be dialed in Active/Active mode even when two WAN interfaces are up.

Conditions:

- (1) Enable Active/Active mode and LB algorithm = "None".
- (2) Edit a correct Dial Backup configuration, enable "Always On" and then apply.
- (3) Make sure WAN1 and WAN2 are both up, after that, Dial Backup will be dialed and we can see three WANs in eWC>Home.

5. [BUG FIX] SPR ID: 071002097

Symptom: CF unrated website block flag cannot save and function doesn't work in specified condition.

Conditions:

- (1) Restore default romfile.
- (2) In CF, enable "Unrated Website Page -- Block" and save it. You will find that it cannot save.
- (3) If you add a policy(policy name: aaa) and repeat step 2 again and it works.
- (4) Add another policy again(policy name: bbb) and save it.
- (5) Disable policy aaa and test the unrated functionality for policy bbb. It will fail.

6. [BUG FIX] SPR ID: 070914803

Symptom: Policy route doesn't work correctly.

Conditions:

(LAN: 192.168.1.1) (192.168.1.33)

ZW_A -----Switch-----PC_A

|-----(WAN: 192.168.2.33) ZW_B (LAN: 192.168.10.1) ----PC_B
(192.168.10.33)

- (1) In ZyWALL_A, LAN Alias IP = 192.168.2.1.
- (2) In ZyWALL_A, create a policy route : Source IP = 192.168.1.33. Destination IP = 192.168.10.33. Gateway = 192.168.2.33.
- (3) In ZyWALL_A, turn on firewall. In eWC>Firewall>Summary, check "Allow asymmetric route".
- (4) PING from PC_B to PC_A, and it fails.

7. [BUG FIX] SPR ID: 071005383

Symptom: Content filter configuration is gone after upload 403 FW.

Conditions:

- (1) Load 4.00 FW and enable "Gambling" category.
- (2) Upload 4.03 FW and the "Gambling" category is gone.

8. [BUG FIX] SPR ID: 071009535

Symptom: User cannot access "tw.msn.com" website when enable CF>block cookie functionality.

Conditions:

- (1) Enable content filter and block cookie.
- (2) Access "tw.msn.com" website and you will get "Bad Request (Invalid Header Name)" in browser.

9. [BUG FIX] SPR ID: 070921355

Symptom: Device crashes when doing the stress testing.

Conditions:

- PC_A == [LAN]ZyWALL_A[WAN] == [WAN]ZyWALL_B[LAN] == PC_B
- (1) Enable all UTM functionality.
- (2) Build up a VPN tunnel for PC_A and PC_B.
- (3) Upload a zip file from PC_A to PC_B.
- (4) PC_A and PC_B send a lot of UDP packet to each other.
- (5) In ZyWALL_A and ZyWALL_B, go to eWC>Home, set the "Automatic Refresh Interval" as 10 seconds.
- (6) After few hours(it may take several days), device crashes.

10. [BUG FIX] SPR ID: 071015779

Symptom: Device hang when input command "ip cf ob add trust aa.aa".

Conditions:

- (1) Input command "ip cf ob add trust aa.aa" in SMT 24.8 and device hangs.

11. [BUG FIX] SPR ID: 071017888

Symptom: Missing help page in VPN>Network Policy>Edit>Port Forwarding Rules.

Conditions:

- (1) Go to eWC>VPN>Network Policy>Edit>Port Forwarding Rules page, click help page and you will find there is no help page in it.

12. [BUG FIX] SPR ID: 070926450

Symptom: Device cannot receive any packet after several days.

Conditions:

- (1) Restore default romfile.
- (2) Do not put any host in private network(LAN/DMZ/WLAN) and make sure device can access internet.
- (3) After few days, device cannot receive packet any more.

Modifications in V 4.03(WZ.0)b4 | 09/13/2007

1. [BUG FIX] SPR: 070905161

Symptom: Wizard internet access setup has wrong URL link.

Conditions:

1. Go to eWC>Home>Wizard>Internet Access setup>Product registration and service activation for free
2. The URL link of registration shouldn't be <http://www.zyxel.com>, it should be <http://www.myzyxel.com>.
3. Click this URL to redirect to www.zyxel.com.tw in this wizard window, and then can't back to wizard setup page.

Modifications in V 4.03(WZ.0)b3 | 08/30/2007

13. [BUG FIX] SPR ID: ITS #:20283

Symptom: CI command "ip arp force on" does not take effect on WAN 2.

Condition:

1. Let WAN 1/WAN 2 active and has traffic on them.
2. CI command "ip arp status" to show that the timer of ARP entry would not decrease due to the existence of the traffic.
3. Use CI command "ip arp force on" to force the system to decrease timers of those WAN ARP entries periodically.
4. CI command "ip arp status" to show, timers of WAN 1 ARP entries would decrease, but timers of WAN 2 would not.

14. [ENHANCEMENT] SPR ID: ITS #:19903

Provide a CI command "ip arp reqUpadteTable [on/off]" to enable/disable that the device would use receiving ARP packet to update ARP table. The default value is off and the value will return to off when the device re-start.

15. [ENHANCEMENT] SPR ID: ITS #:18000

Add a hidden CI command "ipsec maxIkePskLength [31|32]" to turn on 32-byte PSK. After turn on 32-byte PSK, the user can save a 32-byte length IPSec Pre-share key. 32-byte PSK only can be used in ASCII format.

Modifications in V 4.03(WZ.0)b2 | 08/10/2007

29. [BUG FIX] ITS #14567

Symptom: IPSec tunnel can't be builded up with draft 0.

Condition:

ZyWALL----NAT Router----Fortinet 200

- (1) Create a VPN tunnel with Fortinet.
- (2) Enable NAT-Traversal.
- (3) Dial up this VPN tunnel but failed.

30. [FEATURE CHANGE]

For GUI->VPN Global Setting page, VPN skip overlapped check box changes to radio boxes and changes the description according to technical writer suggestion.

31. [ENHANCEMENT]

Add “WIRELESS” group in left panel and move the wireless features (network>wireless card, 3G) into it.

Modifications in V 4.03(WZ.0)b1 | 06/29/2007

1. [ENHANCEMENT]

Support multiple profiles in the original content filter design.

The feature can define different group by IP and each group has its own profile which can

- (1) Have its own group definition to distinguish with other groups.
- (2) Restrict web features (Block ActiveX/Java Applet/Cookies/Web Proxy).
- (3) Restrict access according to selected categories.
- (4) Customize the list for trusted web site/Forbidden web site/Keyword blocking
- (5) Decide when the profile works by schedule.
- (6) Provide the information about which profile a packet belongs to in the log.

2. [ENHANCEMENT]

Add NAT over IPSEC feature for ZyWALL.

3. [ENHANCEMENT]

Design an Anti-Spam wizard GUI for helping users quickly configure the direction to check mail traffic.

4. [ENHANCEMENT] SPR ID: 060616955.

Customized port for ZyNOS 4.03 feature, it supports FTP, H323 and SIP protocols (ALG) now. It supplies 12 entries for user to define a new port number or a port range for FTP, H323 or SIP. Note: The default port of well known service will still work well even if the user customized another port for the same service. e.g. When the user defined port 1688 for FTP, the ZyWALL will support both port 21 and 1688 for FTP service at the same time.

5. [ENHANCEMENT]

Add Diagnostic feature for the ZyWALL to send out the system information automatically when the CPU load is reached the threshold. The purpose is for system diagnostic.

6. [ENHANCEMENT]

Add hose-based load balance feature. Please see appendix 15 for more information.

CI command:

- (1) "ls hostBase enable" to enable or disable the feature.
- (2) "ls hostBase timeout" to set the timeout value.

7. [ENHANCEMENT]

Add 5 private SNMP traps for ZyWALL.

(1) WAN interface down.

(2) WAN IP changes to x.x.x.x.

(3) CPU load reaches 100%.

- (4) ZyWALL switches to Dial Backup.
- (5) NAT table is full.

8. [ENHANCEMENT]

Support IXP425 B1 version CPU.

WAS: Support IXP425 A0/B0 version CPU.

IS: Support IXP425 A0/B0/B1 version CPU

9. [ENHANCEMENT] SPR ID: 060915885

GUI Enhancement on Firewall page.

- (1) Add rule number and edit icon in eWC>Default Rules for quick check rule summary..
- (2) Change the packet direction to 2 list box for user to select "From" and "To" interface.
- (3) Add "Any" selection in packet direction.
- (4) Refine eWC>Rule Summary GUI data structure and fetch process.
- (5) Change the "Move" process to alike ZW1050.

10. [ENHANCEMENT]

(1) In eWC>VPN>VPN Rules (IKE) page, add an Active/Inactive hyperlink in every network policy.

(2) In eWC>VPN>GATEWAY POLICY-EDIT page, add Edit/Delete icons of "Associated Network Policies".

11. [ENHANCEMENT] SPR ID: 060906253

Extend the length of Anti Spam Xtag from 23 to 47.

12. [ENHANCEMENT] SPR ID: 060807425

Enhancement of GUI Home page.

- (1) Add a link for Intrusion Detected/Virus Detected/Spam Mail Detected/Web Site Blocked to connect to its corresponding web page.
- (2) Change the status of Intrusion Detected/Virus Detected/Spam Mail Detected
 - (a) N/A --- No Turbo Card.
 - (b) Disable --- UTM or main feature not active.
 - (c) Numeric --- The count of detected.
- (3) Add note for UTM report.

13. [ENHANCEMENT] SPR ID: 060814859

Check if the decompressed inspection code size is over than the pre-allocated memory size for the software based IDP/AV.

14. [ENHANCEMENT] SPR ID : 060815905,050414612

We change the ZyWALL break mechanism for the infected file.

The ZyWALL just breaks the first infected file packet and stop track the file session in the previous mechanism. The old one has better performance, but there is a risk that it couldn't break the file with more than one virus. Now ZyWALL breaks the first

infected file packet and the following file packet as well. It is safer but down performance for handling infected files. We also fix the line-assembly bug for FTP and HTTP in this enhancement.

15. [ENHANCEMENT]

Support user defined Xheader in mail.

Note: User can use "%status" and "%score" to display mail status and SPAM score in XHeader. There are four kinds of mail status:

- (1) Black List (score always is 100)
- (2) SPAM
- (3) Phishing
- (4) Timeout (score always is 0)

16. [ENHANCEMENT] SPR ID: 060508423

Besides IE, the GUI IP field is supported in Netscape/Mozilla/Firefox.

- (1) The enhancement supports users copy/paste IP field to IP field on Netscape/Mozilla/Firefox.
- (2) The enhancement can also work in Linux.

17. [ENHANCEMENT]

Add direction information in logs of Anti-Virus, IDP and Firewall Attack.

18. [ENHANCEMENT] SPR ID: 060522258

If users let "Redirect URL" in Content Filter be blank, the blocking page will be displayed on the forbidden object only.

19. [BUG FIX] SPR ID: 060705202

Symptom: The format and content of "System Resources" is shown different in eWC>>Home and SNMP management software.

Condition:

- (1) See "System Resources" in eWC>>Home. They are shown like:

Flash	9/16 MB
Memory	42/64 MB
Sessions	87/10000
CPU	0%

- (2) See "sysCPUUsage", "sysFlashUsage", "sysRAMUsage" and "sysSessionUsage" in SNMP management software, e.g. SNMPc Network Manager. They are shown like:

sysCPUUsage.0=0
sysFlashUsage.0=3
sysRAMUsage.0=30
sysSessionUsage.0=0

- (3) You will find that the format and content shown in eWC>>Home is different from SNMP management software.

20. [BUG FIX] ITS#: 14936

Symptom: This kind of URL request such as "http://www.host:80" can not pass through content filter trusted web site.

Condition:

- (1) Enable content filter and website customization.
- (2) Disable all web traffic except for trusted Web sites.
- (3) Add the website "http://www.sina.com" into trusted Web site.
- (3) Browse "http://www.sina.com:80" by Firefox and find it can not be visited.

21. [BUG FIX] ITS#: 14612

Symptom: ZyWALL cannot reply packet on correct WAN interface if the packet from some WAN subnet.

Condition:

- (1) Set ZyWALL WAN on A/A mode.
- (2) Put a PC on WAN2 subnet, and its IP is same subnet as WAN2 interface.
- (3) PC adds a route entry to redirect all packets to WAN1 interface.
- (4) PC cannot receive the reply packets.

22. [BUG FIX] SPR ID: 070123093,070123094,070123095

Symptom: Memory leak when doing IDP CLI operation.

Condition:

- (1) CI> idp sig load 12345
- (2) Repeating (1).

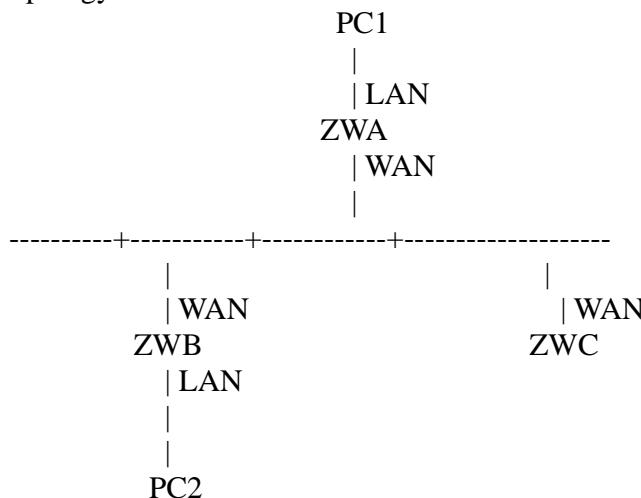
Memory leak!!

23. [BUG FIX] ITS#: 15003

Symptom: There will be a large latency in VPN1 if a new SA is set up.

Condition:

Topology:



VPN1: ZyWALLB build a VPN with ZWA

VPN2: ZWC build a VPN with ZWA

- (1) Build the VPN1 and ping PC1 from PC2.

- (2) Build VPN2.
- (3) There will be a large delay in the ping.

24. [BUG FIX] SPR ID: 060627810

Symptom: If the encapsulation type of WAN interface is PPPoE/PPTP, the conflict check will be failed when configuring LAN/DMZ/WLAN interface IP.

Condition:

- (1) Set WAN encapsulation as PPPoE/PPTP, and make sure the device can get the IP correctly.
- (2) In eWC->NETWORK->LAN->LAN, set "IP Address" to an IP which is the same subnet as WAN interface.
- (3) Finally the configuration can be saved but it should not.

25. [BUG FIX] SPR ID: 060705184

Symptom: The ordering of IDP signature is wrong.

Condition:

- (1) In eWC>AV>Signature>Switch to query view: select Signature Search by Attributes, Severe, DDOS and click search.
- (2) Click ordering by name. Check the result.
- (3) Do step (2) again and you will find the ordering is not right.

26. [BUG FIX] SPR ID: 060707351

Symptom: Can't enter SMT menu 4.

Condition:

- (1) In SMT menu 4, delete ISP's name. Save it.
- (2) In SMT menu 11, edit ISP's name as "WAN". Save it.
- (3) We can't enter SMT menu 4 anymore.

27. [BUG FIX] SPR ID: 060714836, 060714837, 060714838.

Symptom: Trace route fails to get response from our device.

Condition:

Topology:
PC-----(LAN)ZWA(WAN)

- (1) On PC, try trace route a host(www.yahoo.com).
- (2) Trace route cannot get response from our device.

28. [BUG FIX] SPR ID: 060721405.

Symptom: Traffic log does not work in bridge mode.

Condition:

- (1) Restore default romfile.
- (2) Switch to bridge mode.
- (3) Go to eWC>SYSTEM REPORTS page, enable "Send Raw Traffic Statistics to Syslog Server for Analysis".
- (4) Go to eWC>LOGS>Log Settings page, activate "Syslog" and setup the syslog server IP as PC_A.

- (5) PC_A enables the Kiwi Syslog Daemon.
- (6) There is no traffic log sent to kiwi Syslog Daemon anymore.

29. [BUG FIX] SPR ID: 060725664.

Symptom: DNS cannot be updated in bridge mode.

Condition:

- (1) Restore default romfile.
- (2) Switch device to bridge mode (do not set DNS right now).
- (3) Go to eWC>MAINTENANCE>General page, set the DNS server as 172.23.5.1 and save it.
- (4) Go to another page and back to this page, you will find the DNS server is 0.0.0.0.

30. [BUG FIX] SPR ID: 060714862

Symptom: IPSec High Availability failed when enable Nailed-Up. The VPN connection swaps between primary and secondary gateway continuously.

Condition:

```

/-----(W)ZWA(L)---PC2
PC1-----(L)P1(W)---|
                     \-----(W)ZWB(L)---PC3

```

- (1) ZWP1 switch to bridge mode. (not necessary)
- (2) Create one VPN tunnel for PC1 and PC2
- (3) Redundant Remote Gateway = ZWB
- (4) Enable Nailed-Up for ZWP1, ZWA and ZWB.
- (5) ZWP1 always reconnect tunnel between zwA and zwB.

31. [BUG FIX] SPR ID: 060731994, 060731995

Symptom: Policy route is failed in a special topology.

Condition:

Topology:

```

ZyWALL B
  ||
PC1(192.168.1.33)----(SWITCH)----(192.168.2.33)ZyWALL
A(192.168.10.1)----PC2(192.168.10.33)

```

- (1) The device under test is ZyWALL B, the LAN subnet is 192.168.1.x with a LAN IP alias 192.168.2.x.
- (2) In ZyWALL B, there is a policy route rule that will redirect the range 192.168.10.1-192.168.10.250 to 192.168.2.33.
- (3) In ZyWALL A, disable NAT and firewall feature.
- (4) Ping PC1 from PC2, there is no response.

32. [BUG FIX] SPR ID: 060822312, 060822309, 060822310

Symptom: Trigger dial function is abnormal if we blocked all traffic from LAN to WAN.

Condition:

- (1) Reset to default factory.
- (2) Setting a correct PPPoE connection in WAN interface, disable "nailed-up", and idle timer is 20 seconds.
- (3) Enable firewall, and block all traffic from LAN to WAN.
- (4) Ping "168.95.1.1" continuously in a LAN side PC, WAN interface still can get IP. (It means WAN interface still can be triggered but the ping packet should be dropped by firewall.)

33. [BUG FIX] SPR ID: 060918066

Symptom: Bridge mode VPN AV can not recognize ZIP file.

Condition:

[Topology]

FTP Server --- DUT1(Bridge) ----- PC

- (1) DUT1 is in bridge mode, and then enables AV for FTP Server to PC and PC to FTP Server.
- (2) PC uploads a zip file to FTP Server. (The file is zipped with WinZIP)
- (3) DUT logs AV can not recognize the zip type; and there are many logs for it.

34. [BUG FIX] SPR ID: 060914870

Symptom: There will be lots of "Common TOS double free" log by SYN flooding tool.

Condition:

- (1) Reset to default factory.
- (2) Change the device to bridge mode.
- (3) Set a firewall rule for port 21 in WAN to LAN direction.
- (4) The PC in WAN side uses SYN flooding tool (destination port is 21) to attack a PC in LAN side.
- (5) Keep attacking and reboot the device.
- (6) Check the centralized log, there be lots of "Common TOS double free" log.

35. [BUG FIX] SPR ID: 060926698

Symptom: The default route learning from LAN side router cannot work.

Condition:

Topology:

PC-----(192.168.1.1)DUT(WAN)

|

---(192.168.1.100)Router(WAN)----- (Internet)

- (1) Disconnect WAN cable of DUT, and connect WAN cable of router.
- (2) DUT and router restore default romfile.
- (3) Change router's LAN IP as "192.168.1.100" and disable LAN DHCP server.
- (4) DUT will learn a default route from router.
- (5) PC cannot access internet from the default route.

36. [BUG FIX] SPR ID: 060915931,060919187

Symptom: SIP phone can not dial to VPN peer for PPPoE.

Condition:

- (1) Topology as follows:

P2002(A) --- DUT1(PPPoE) =====VPN TUNNEL===== DUT2 --- P2002(B)
(2) Configure as attached file.

Test Steps:

- (1) DUT1 WAN is PPPoE.
- (2) DUT1 and DUT2 enable SIP ALG.
- (3) DUT1 and DUT2 build a VPN tunnel.
- (4) P2002(A) dials P2002(B). Connection is success, but P2002(A) can not hear P2002(B)'s voice; P2002(B) can hear P2002(A).

37. [BUG FIX] SPR ID: 061020683

Symptom: PPPoE and PPTP can't be dropped in SMT24.1.

Condition:

- (1) WAN1 is PPPoE or PPTP.
- (2) Go to SMT24.1 and click "1" to drop WAN1.
- (3) But WAN1 is still alive.

Note: This problem only happens on the device that include 3G WAN.

39. [ENHANCEMENT]

Support SCEP via an RA.

41. [BUG FIX] SPR ID: 070516794, 070517866, 070517874

Symptom: ZyWALL crash when Dialbackup with omni.net Lite Multilink

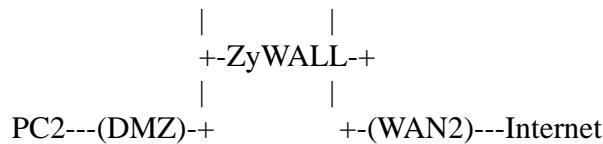
Condition:

- (1) ZyWALL dialbackup port connects with omni.net ISDN TA.
- (2) omni.net connects with a ISDN simulator, and PPP server is P2002+.
- (3) When WAN is down and the dialbackup is up, ZyWALL crash occurs.

42. [BUG FIX]

Symptom: Can't see the site on the public DMZ from Internet

Topology: PC1---(LAN)-+ +-(WAN1)-+Internet-----PC3



Condition:

The NAT setup of WAN 1 is full feature, and NAT setup of WAN 2 is SUA.

Can't see the site on the public DMZ from Internet

1. Set LAN to 192.168.1.1/24, DMZ to a public subnet.

2. Add a static route to let PC3 can routing to PC2 from WAN1.

3. WAN1 and WAN2 all active and have public IP addresses.

4. Set WAN1 NAT to Full Feature and modify the first default NAT rule to:

#	Local Start IP	Local End IP	Global Start IP	Global End IP	Type
1	192.168.1.1	192.168.1.254	0.0.0.0	N/A	M-1

5. Set WAN2 NAT to SUA.

6. PC3 Ping PC2 will failed.

44. [BUG FIX] SPR ID: 070228410

Symptom: ZyWALL BW MGMT class search order shows wrong when moving classes.

Condition:

- (1) Restore romfile(password:fenris120) from SPR, go to Class Setup under WAN1.
- (2) Add sub-class FTP, bandwidth budget 180k, priority:5, service type:FTP.
- (3) Add sub-class PC1, bandwidth budget 150k, priority:4, borrow,service type:custom, Source IP:single 192.168.1.37.
- (4) Can not move class 1 to 2.

45. [BUG FIX]

Symptom: Modem initialization process cannot finish, LG-340E CDMZ Wireless phone.

Topology:PC-----(LAN)ZyWALL (AUX0)--- LG-340E CDMA Wireless phone

Condition:

- (1) Connect this CDMA phone(LG-340E) to my PC directly (Baud rate 115200).
- (2) Key in the AT commands "AT OK AT+CRM=1 OK AT\$LGPKT=3 OK ATDT#777 CONNECT".
- (3) ZyWALL print message **※AUX Port init Done Modem Init Failed!!!\$** in console.

46. [BUG FIX]

Symptom: BM for SIP doesn't work on WAN interface.

Condition:

- (1) Add a BM filter for SIP on WAN interface.
- (2) Enable SIP ALG.
- (3) SIP connection can be built successfully with Customer's SIP server.
- (4) But SIP Traffic can't be monitored.

47. [BUG FIX]

Symptom: Some formats of logs should be consistent.

LOG message in EWC->LOGS->View Log

WAS:

#	Time	Message		
		Source Destination	Note	
		WLAN STA Association MACAddr:0013026c13a3		
		WLAN STA Association Again MACAddr:0013026c13a3		

	WLAN STA denied by WLAN MAC Filter MACAddr:0013026c13a3			
	WLAN STA allowed by WLAN MAC Filter MACAddr:0013026c13a3			
	DHCP server assigns 10.10.101.222 to 			
	Kurt-I6400(00:13:02:88:79:59) 			

IS:

#	Time	Message		
		Source Destination	Note	
		WLAN STA Association MACAddr:0013026c13a3		
		WLAN STA Association Again MACAddr:0013026c13a3		
		WLAN STA allowed by WLAN MAC Filter		
		MACAddr:0013026c13a3		
		WLAN STA denied by WLAN MAC Filter		
		MACAddr:0013026c13a3		
		DHCP server assigns IP:10.10.101.222 to		
		Kurt-I6400(00:13:02:88:79:59)		

48. [ENHANCEMENT]

Add CI "sys log mail port" to change the port number which ZyWALL Email logs to SMTP server.

Modifications in V4.02(WZ.1) | 05/24/2007

Modify for formal release.

Modifications in V 4.02(WZ.1)b1 | 05/15/2007

1. [BUG FIX] SPR ID: 070317140, 070317141, 070317142, 070317143, 070322461, 070322462, 070322463

Symptom: LAN PC cannot use all services (http; https; telnet; ssh; ftp) with wan IP.

Condition:

- (1) DUT WAN gets an IP.
- (2) PC in LAN access DUT's HTTP service through WAN IP, it will fail.
- (3) Other services(HTTPS, SSL, TELNET, FTP) all are not worked through WAN

IP.

2. [BUG FIX] ITS #15979, #15202

Symptom: ZyWALL rebooted at least one time a day.

Condition:

Topology:

WAN1---zywall35---DMZ---mail server

- (1) Set ZyWALL to the bridge mode.

- (2) Enable only AS.

- (3) Check only WAN1 to DMZ for Anti-Spam.

- (4) Then ZyWALL will reboot at least one time a day.

3. [BUG FIX] SPR ID: 061213849, 070118859, 070118860, 070118861

Symptom: ZyWALL (bridge mode) cannot forward the broadcast fragmented UDP packets.

Condition:

Topology:

Sender --- [WAN]DUT (Bridge Mode)[LAN] --- Receiver

(1) In bridge mode, set Firewall WAN->LAN permit, enable DoS attack protection on WAN and LAN.

- (2) Sender begins to send the broadcast fragmented UDP packets.

- (3) Receiver cannot receive all the broadcast fragmented UDP packets.

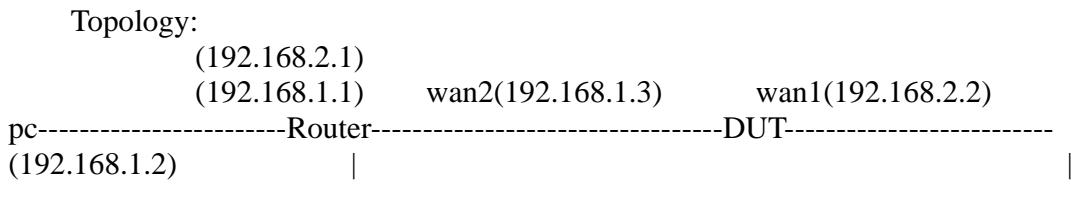
4. [BUG FIX] ITS #13880

Symptom: Nokia E-series phones failed to retrieve e-mail from a server behind ZW

5. [BUG FIX] SPR ID: 070118862, 070118863, 070118864

Symptom: ZyWALL cannot reply packet on correct WAN interface if the packet from some WAN subnet.

Condition:



- (1) Disable firewall on DUT
- (2) Set DUT WAN on A/A mode.
- (3) Put a PC on WAN2 subnet, and its IP is same subnet as WAN2 interface.
- (4) PC ping 192.168.2.2 and it can not receive the reply packets.

6. [BUG FIX] SPR ID: 070118895, 070118893, 070118894
 provide a CI command to customize SMTP for sending log port

7. [BUG FIX] SPR ID: 061221255
 Symptom: Set VPN gateway with certificate but got error message on eWC.
 Condition:

- (1) Import the certificate "zyxel", password "test", which is provided by CSO.
- (2) Configure a VPN-gateway (phase 1).
- (3) Select just imported certificate as Authentication Key.
- (4) "Apply" to save the setting.
- (5) Try to change any configuration of phase1, the ZyWALL will generate an warning error: "An error was detected on this page. Extra characters were detected in the item HTML item value: MAILTO=support@esienet.de, CN=zyxel, OU=ms, O=sen, L=hamburg, ST=hamburg, C=de".

8. [BUG FIX] ITS #15262
 Symptom: There's an delay of 2 seconds when checking DNS with NSLOOKUP if using the ZyWALL as an DNS server.

Condition:
 Toplogy:
 PC-----(LAN) DUT (WAN)---internet

- (1) PC must join to a domain name.
- (2) Advance->DNS->System, and put in a public DNS server in the list or get one dynamically.
- (3) Advance->DNS->Cache, enable Cache Negative DNS Resolutions.
- (4) On the PC, config the DNS server as the LAN IP address of DUT
- (5) Go to start->run->nslookup, issue such command: "zyxel.com" or "www.baidu.com" in PC, you will see the timeout message.

9. [BUG FIX] SPR ID: 070306386, 070306387, 070306388
 Symptom: ZyWALL shows error message and failes to forward packets when changing the WAN speed in bridge mode.

Condition:

- (1) Change ZyWALL to bridge mode.
- (2) Use the following command to change the WAN speed

```
>ether edit load 2  
>ether edit speed 10/full  
>ether edit save
```

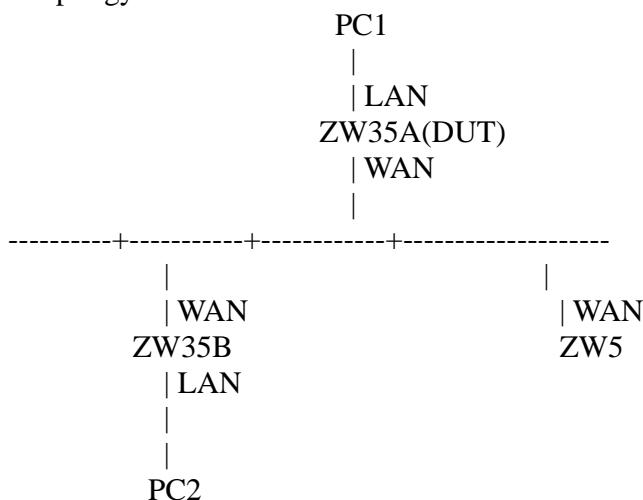
(3) Then the error "Fail to lock read.[record number=128, entry number=0]" shows up. Both LAN users and the device could not communicate with internet.

10. [BUG FIX] SPR ID: 070117842

Symptom: There will be a large latency in VPN1 if an new SA set up.

Condition:

Topolgy:



VPN1: ZyWALL35B build a VPN with ZW35A

VPN2: ZW5 build a VPN with ZW35A

- (1) Build the VPN1 from ZW35B and ping PC1 from PC2.
- (2) Build VPN2. from ZW5
- (3) There will be a large delay in the ping from PC2 to PC1.

11. [BUG FIX] SPR ID: 070118898, 070118896

Symptom: The format and content of "System Resources" is shown different in eWC>>Home and SNMP management software.

Condition:

- (1) See "System Resources" in eWC>>Home. They are shown like:

Flash	9/16 MB
Memory	42/64 MB

Sessions 87/10000
CPU 0%

(2) See "sysCPUUsage", "sysFlashUsage", "sysRAMUsage" and "sysSessionUsage" in SNMP management software, e.g. SNMPC Network Manager. They are shown like:

```
sysCPUUsage.0=0
sysFlashUsage.0=3
sysRAMUsage.0=30
sysSessionUsage.0=0
```

(3) You will find that the format and content shown in eWC>>Home is different From SNMP management software.

Solution: Modify the shown format of "sysCPUUsage", "sysFlashUsage", "sysRAMUsage" and "sysSessionUsage" in SNMP management software to same as them in eWC>>Home.

12. [BUG FIX] SPR ID: 070212077

Symptom: Open trace packet may cause DUT crash.

Condition:

(1) WAN configure as PPTP type, nail-up is ON.
(2) Goto CI command, open enet1 as bothway, turn on the capture switch, and display the packet data.

```
>sys trcpacket chan enet1 bothway
>sys trcpacket switch on
>sys trcdisplay brief
```

(3) WAN connect to PPTP server, soon the device crashes.

13. [BUG FIX] SPR ID: 070206519

Symptom: Device crash when release/ renew IP in menu24.4 .

Condition:

(1) Change DUT's MAC and reboot it.
(2) Into Menu24.4, release/ renew IP several times.
(3) Device crash.
(4) Can't reproduce

14. [BUG FIX] SPR ID: 061211692

Symptom: Console shows "tosFree is not in network task..." messages Sometimes.

Condition:

(1) Customer has configured VPN gateway and network policy.
(2) Customer has configured "Private DNS Server".
(3) In V4.01(WM.1), there are strange logs came from the console.

```
=====
task name = dns-proxy, pc = f6f30
tosFree is not in network task...
task name = dns-proxy, pc = f6f30
tosFree is not in network task...
task name = dns-proxy, pc = f6f30
tosFree is not in network task...
task name = dns-proxy, pc = f6f30
=====
```

(4) Can't reproduce

15. [BUG FIX] ITS #16021

Symptom: ZyWALL VPN does not allow two same Local/Remote address rules when remote is dynamic.

Condition:

- (1) Build one VPN rule with local policy 192.168.1.1/24 and dynamic remote and active the VPN rule
- (2) Build another VPN rule with the same local and remote network policy and active the VPN rule
- (3) Then ZyWALL VPN reminds that Local/Remote address conflicts with each Other.

16. [BUG FIX] SPR ID: 070116769, 070116768

Symptom: The DUT will crash after receiving bouncing portscan traffic.

Condition:

- (1) Configure eWC>Advanced>NAT>NAT Overview, enable WAN1 NAT with SUA
- (2) Configure eWC>Security>Firewall>Default Rule, WAN1 to WAN1 = Permit
- (3) Open 4 portscan tools to scan WAN1 IP from WAN site, DUT crash after a peroid time

17. [BUG FIX] SPR ID: 070322438

Symptom: ZyWALL often occurs "Cannot receive a complete result from the external server" when enable CF.

Condition:

- (1) Enable the external server and some category items.
- (2) Sometimes the ZyWALL cannot block the url which should be blocked by the category.
- (3) If you check the log, there are many "Cannot receive a complete result from the external server".

18. [BUG FIX] SPR ID: 070510394

Symptom: Device sends unnecessary queries to CF external server.

Condition:

- (1) Enable CF and external CF.
- (2) Access www.msn.com from PC
- (3) You will see some URL end with .gjf or .jpg files in the CF cache.
- (4) Some MIME type should be ignored in CF query.

Modifications in V 4.01(WZ.4)b2 | 03/12/2007

1. [BUG FIX] 070206549, 070206548, 070206547, 070212010

Symptom: "Ping of Death" function work error when set packet length !=1500.

Condition:

Case 1:

- (1) Use command "ip icmp death 800" to set the packet length for "Ping of Death" check.
- (2) On LAN pc, use DOS command "ping 192.168.1.1 -l 1000",
- (3) Result should be can't ping success, and in DUT, display ping of death log. But actual result is ping success, and no log.

Case 2:

- (1) Use command "ip icmp death 2000" to set the packet length for "Ping of Death" check.
- (2) On LAN pc, use DOS command "ping 192.168.1.1 -l 1600",
- (3) Result should be can ping success. But actual result is can't ping success.

2. [BUG FIX] 061019655, 061025917, #ITS 15659

Symptom: Device does not log any CF customization events.

Condition:

- (1) Enable content filtering.
- (2) Enable Web site customization in the Customization page.
- (3) Add Forbidden Web Site or Keyword Blocking.
- (4) Access the Web Page which should be blocked.
- (5) You can see the blocked page but there is no blocked log in the Logs page.

3. [BUG FIX] #ITS 14936

Symptom: This kind of URL request such as "http://www.host:80" can not pass through content filter trusted web site.

Condition:

- (1) Enable content filter and website customization.
- (2) Disable all web traffic except for trusted Web sites.
- (3) Add the website "http://www.sina.com" into trusted Web site.
- (4) Browse "http://www.sina.com:80" by Firefox and find it can not be visited.

4. [BUG FIX] 070206508, 070206509, 070206510

Symptom: Remove PPP option in Help page of 'Dial Backup>PPP option'.

5. [BUG FIX] 060720270, 060720271, 060720272

Symptom: Content Filter "Restrict Web Features" is inconsistent behavior on appeared of page when enable or disable "Don't block trusted Web sites".

Condition:

- (1) Enable Content Filter and block ActiveX, Java Applet.
- (2) Denied Access Message is "page denied!", redirect url is "http://www.zyxel.com".
- (3) Visit ActiveX or Java Applet web site like as [http://dob.tnc.edu.tw/themes/old/showPage.php?s=152&t=5&at="](http://dob.tnc.edu.tw/themes/old/showPage.php?s=152&t=5&at=).
- (4) The "dob.tnc.edu.tw" will be blocked and redirect to www.zyxel.com.
- (5) Enable customization, enable "Don't block Java/ActiveX/Cookies/Web proxy to trusted Web sites.", then visit "dob.tnc.edu.twb" web site again, the ActiveX or Java Applet site page will not blocked and redirect.

6. [BUG FIX]

Symptom: IXIA AS stress test will cause DUT crash.

7. [BUG FIX] #ITS 14652

Symptom: A crash issues reported by Studerus.

Condition:

- (1) Enable Content Filter and External DB.
- (2) Sometimes DUT will crash in WuXi PQA LAB and customer site.

8. [BUG FIX] 070212068

Symptom: Device crash sometimes.

Condition:

- (1) Let device register to Vantage with Ether encapsulation.
- (2) Change WAN encapsulation from Ether to PPPoE and fill incorrect login name and password.
- (3) Device's WAN can't dial up because incorrect login name and password.
- (4) Device crash after 2 minutes.

9. [BUG FIX] 070208756

Symptom: Device crash.

Condition:

- (1) Configure device via Vantage.
- (2) Reset device to default setting. Then register to Vantage again.
- (3) Start synchronizes all setting from Vantage to device.
- (4) Device crash sometimes.

10. [BUG FIX]

Symptom: DUT will carsh when some URL longer than specific array.

Condition:

- (1) Enable Content Filter and External DB.
- (2) Sometimes DUT will crash in WuXi PQA LAB.

11. [BUG FIX] #8753, #ITS 14652

Symptom: DUT will crash sometime.

Condition:

- (1) Enable NAT.
- (2) Sometimes DUT will crash in customer site.

Modifications in V 4.01(WZ.4)b1 | 01/29/2007

1. [BUG FIX] 061102088

Symptom: The MIB OID for UTM AV and IDP does not work.

Condition:

- (1) Reset to defalut romfile.
- (2) PC installs SNMP software, such as MG-SOFT MIB Browser.
- (3) Try to get value of OID, 1.3.6.1.4.1.890.1.6.1(the AV/IDP signature version and Sigdate) will fail.

2. [ENHANCEMENT] 061120101

Add CI command "ip icmp death [size (0~65535, 0: default)]" to set the packet length for "Ping of Death" check.

Note: Default size is 1500.

3. [BUG FIX] 061107359

Symptom: Traffic can not be sent out through WAN port when using AV+IDP+VPN.

Condition:

PC1--- (LAN) ZyWALL5 (WAN) ---- (WAN) ZyWALL70 (LAN) --- PC2 (FTP, HTTP Server)

- (1) Setup one VPN between ZW5 and ZW70.
- (2) Enable the AV and IDP in ZW5, and enable the zip file scan in AV.
- (3) PC1 start FTP and HTTP download one 50Mbps ZIP file.
- (4) About 3 minutes, PC1 can not ping PC2 and can not access Internet.

4. [ENHANCEMENT]

- (1) Support direct ACK/BYE sip request.
- (2) Support different global IP address for SIP clients and SIP server.

Note: Please refer to the appendix 14, we solve the limitation about item 2 and 3.

5. [BUG FIX] 061106276

Symptom: Content filter cache log error.

Condition:

- (1) Reset default romfile.
- (2) Registration to gfnet.zyxel.com.tw
- (3) eWC> Content Filter> General, enable content filter.
- (4) eWC> Content Filter> Categories, select Business categories, click "Apply".
- (5) Access <http://www.tcc.net.tw>
- (6) Check log OK.
- (7) Again to access <http://www.tcc.net.tw>
- (8) Log should be displayed as "www.tcc.net.tw: Business/Economy(cache hit)|WEB

BLOCK", not "(cache hit)|WEB BLOCK".

6. [BUG FIX] 061113707

Symptom: Content filter trusted web will be blocked when select "Don't block Java/ActiveX/Cookies/Web proxy to trusted Web sites."

Condition:

- (1) Enable Content filter, enable blocking Active X, Cookie, Java Applet, and Proxy server.
- (2) Edit web eWC/Content Filter/Customization. Add Trusted Web Site "www.google.com.tw", "update.microsoft.com", "www.csie.nctu.edu.tw" to trusted web sites list.
- (3) Enable "Don't block Java/ActiveX/Cookies/Web proxy to trusted Web sites."
- (4) PC open web "http://www.google.com.tw", "http://update.microsoft.com", it will be blocked.

7. [BUG FIX] 061123342, 061123343

Symptom: ZyWALL (bridge mode) does not support more than 1 VPN client at the same time.

Condition:

Topology:

ZyXEL VPN Clients ----- Internet ----- ZyWALL 70(Bridge Mode) ----- LAN

- (1) Configure one dynamic VPN rule in ZyWALL 70.
- (2) In above topology, two or more clients over the internet can successfully establish VPN tunnel with ZyWALL 70.
- (3) But only the first connected VPN client can access ZyWALL 70's LAN side at a time.

8. [BUG FIX] 061128584, 061128585 (ITS#13932)

Symptom: Device crashes by hardware watchdog.

Condition:

Topology:

- (a) PC --- [LAN]ZyWALL[WAN] --- HTTP server
- (b) HTTP server --- [LAN] ZyWALL [WAN] --- PC

(1) Restore default romfile.

(2) When the PC connects to HTTP server (<http://www.alektogroup.com>) by ZyWALL, the ZyWALL will crash sometimes.

9. [BUG FIX] ITS#12880

Symptom: ZyWALL configured to establish Dial Backup with CDMA ISP through RWT FCT CDMA, but does not work.

Condition:

- (1) Configure Dial Backup setting.
- (2) Turn off ZyWALL PPP PFC (Protocol Field Compression) setting. This can be showed by CI command "ppp lcp pfc". Default PFC setting is off.
- (3) WAN1 & WAN2 down, Dial Backup is up.

(4) The Dial Backup session between the ZyWALL and ISP is established, ZyWALL got an IP address provided by the ISP, but the PC in LAN can't ping to an Internet host. ZyWALL can receive and transmit the ping request, and can receive reply from remote host, but ZyWALL won't transmit the reply to the PC in LAN.

10. [BUG FIX] 061121145 (ITS#13200)

Symptom: Failed to call the SIP phone on DMZ side with Firewall enabled.

Condition:

(1) Turn on Firewall. Set ZyWALL5's default firewall rule for WAN-->DMZ is dropped.

(2) Turn on SIP ALG setting.

(3) Set up following topology:

phone --- P2002 --- [DMZ]ZW5[WAN] --- SIP server --- VoIP phone

(4) As soon as P2002 registers to the SIP server, there is no problem for the phone both call in and call out. But after a while, the phone on DMZ side cannot receive any phone calls, although it's still far before "SIP ALG Timeout" configured on the ZyWALL. Only after the P2002 register again, can the phone on DMZ side receive calls, and the cycle repeats.

11. [BUG FIX] ITS#13995

Symptom: ZyWALL cannot show the the block message of content filter complete in MSIE7.0 and Firefox.

Condition:

Topology:

PC --- [LAN] ZyWALL [WAN] --- Internet

(1) In router mode, enable content filter and set the block message but leave the Redirect URL blank.

(2) Enable external database content filtering and block matched web pages.

(3) Select search engines/portals categories.

(4) Open the <http://www.sina.com.cn> in Firefox and MSIE7.0. The block message cannot be shown completely in MSIE7.0 and nothing in Firefox.

12. [BUG FIX] 061122298, 061122299, 061122300, 061107323

Symptom: Sometimes DUT cannot detect eicar AV.

Condition:

Topology: PC1 --- [LAN] DUT [WAN/Public IP] --- Internet.

(1) Restore default romfile.

(2) Register DUT AV function.

(3) Set WAN IP= Ethernet/Static IP(Public IP).

(4) Go to eWC>>ANTI-VIRUS>>General page, enable Anti-Virus, enable ZIP file Scan, active HTTP service for all interface.

(5) PC1 accesses http://www.eicar.org/anti_virus_test_file.htm to download eicar.com file.

(6) Sometimes DUT cannot detect this Anti-Virus file (eicar.com).

13. [BUG FIX] 061218035

Symptom: Device crashes when you use Anti-Spam function.

Condition:

- (1) Restore default romfile.
- (2) Register Anti-Spam service.
- (3) Go to eWC>>ANTI-SPAM>>General page, enable Anti-Spam for all directions, active "Discard SMTP mail.Forward POP3 mail with tag in mail subject".
- (4) Go to eWC>>ANTI-SPAM>>External DB page, enable External Database, set Threshold= 0.
- (5) Send a large mail (> 20K) from LAN to WAN, the device will loss mbuf.

14. [BUG FIX] 061212754

Symptom: Device crashes when you use Anti-Spam function.

Condition:

- (1) Enable Anti-Spam & External Database.
- (2) System crashes sometimes on customer site.

15. [FEATURE CHANGE] 061218034

For Anti-Spam external database server control,

WAS: ZyWALL will refresh server list if available server <= 2.

IS: ZyWALL will refresh server list if available server <= 1 but keep the last available server.

16. [ENHANCEMENT]

Combine cnm encryption CLI from two commands to one command.

WAS: Change cnm encryption mode with 2 CLIs: 'cnm encrykey <key>' and 'cnm encrymode <mode>'.

IS: Change cnm encryption mode with one CLI: 'cnm encry <mode> <key>'

17. [BUG FIX] 070105291

Symptom: DUT reboot.

Condition:

- (1) Set DUT WAN as PPPoE connection
- (2) Enable H323 alg
- (3) Firewall forward H323 protocol from WAN1 to LAN
- (4) DUT forward 1720 port from WAN1 to LAN
- (5) Make a H323 connection from WAN to LAN using OpenH323 software, DUT can reboot.

18. [BUG FIX]

Symptom: Ping DMZ IP from PC in DMZ. You can't get response

Condition:

- (1) Set LAN IP and add two IP Alias. Make sure they like 192.168.200.100. That is each number separated by periods is >= 100.
- (2) Set DMZ IP and add two IP Alias. The rule is the same with description above
- (3) PC connects to devcie's DMZ port and ping device's DMZ IP.

(4) Can't get response from device.

19. [BUG FIX]

Symptom: iChat behind ZyWALL can not make a video call with another iChat in WAN.

Condition:

Topology:

iChat_1----- (LAN) ZyWALL (WAN) ----- iChat_2

- (1) In router mode Apple Mac iChat_1 made a video call request to iChat_2 on WAN.
- (2) iChat_1 failed to set up the video call with iChat_2.

20. [BUG FIX]

Symptom: Help info about "domain name" in h_AS_Custom_Edit.html is not consistent with ZyWALL function.

Condition:

Help info about "domain name" in h_AS_Custoe_Edit.html is not consistent with ZyWALL function.

21. [FEATURE CHANGE]

Remove PPP Option configuration in WAN>>Dial Backup and SMT

22. [BUG FIX]

Symptom: ZyWALL70 loses static route entry when WAN down and up again.

Condition:

- (1) Set WAN operation mode as Active/Active mode.
- (2) Set a static route, let traffic go to some destination A by WAN2.
- (3) When WAN2 is down, using "ip ro st" to show route table, the static route disappears, the traffic goes to some destination will go through WAN1.
- (4) After WAN2 is up again, the static route won't come back, the traffic to destination A still goes through WAN1.

23. [ENHANCEMENT]

Support IXP425 B1 version CPU.

WAS: Support IXP425 A0/B0 version CPU

IS: Support IXP425 A0/B0/B1 version CPU

24. [BUG FIX] 061213832; 061213856; 061213859; 061213854; 061213855;
061213858

Symptom: ZyWALL can't tag the mails sent by Exchange 2003 SP2.

Topology:

Exchange 2003(SP2)---ZyWALL---Other mail servers(not Exchange 2003 SP2)

Condition:

- (1) Configure a Black list.
- (2) Send mails (with subjects configured in the Black list) from the Exchange 2003(SP2) to other mail servers. The ZyWALL will not tag the mails pass through it.

Modifications in V 4.01(WZ.3) | 12/04/2006

Modify for formal release.

Modifications in V 4.01(WZ.3)b1 | 11/24/2006

1. [ENHANCEMENT] SPR ID: 061109533
Enlarge mail header size from 1024 to 2048.

2. [BUG FIX] SPR ID: 060711576

Symptom: Content filter is fail when user installs Outpost Firewall.

Condition:

- (1) Install OutpostPro Firewall software.
- (2) Set "disable all web traffic except for trusted web sites" and enable content filter.
- (3) Enable Outpost Firewall, user can surf the website as usual.
- (4) If we disable Outpost Firewall, web surfing will be blocked besides trusted web sites.

3. [BUG FIX] SPR ID: 060810690

Symptom: Redirect URL have not limit special character, it will caused DUT crash.

Condition:

- (1) In eWC>CF Denied Access Message or Redirect URL, input %s%s%s and apply, DUT will be crash.

4. [BUG FIX] SPR ID: 060927777

Symptom: The "Up Time" shown on the Port Statistics and Home page is quite different when the ZyWALL uptime is more than 100 hours.

Condition:

- (1) Let ZyWALL WAN1 uptime be more than 300 hours.
- (2) Go to eWC>HOME page, the "Up Time" is "4:00:00".
- (3) Click "Port Statistics" button, the WAN1 "Up time" of pop-up window is "300.00.00".

5. [BUG FIX] SPR ID: 060420608

Symptom: Two SIP clients cannot talk to each other when both of them are in LAN.

Condition:

Topology:

SIP Client_A -----(LAN) ZyWALL (WAN)-----SIP Server
SIP Client_B -----|

- (1) Two SIP clients register on SIP server which is in the WAN.
- (2) Create a call between client A and client B, they cannot hear each other.

6. [BUG FIX] SPR ID: 060419442, 060512720, 060601086

Symptom: The VoIP client cannot hear the voice when SIP server is set behind the LAN.

Condition:

Topology:



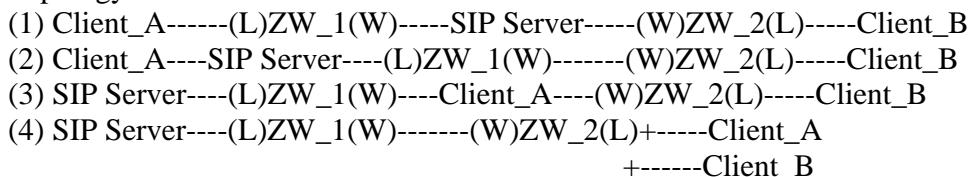
- (1) Create a port forwarding rule on ZW70 to let SIP traffic of P2002B can be forwarded to SIP server.
- (2) Dial a phone call from P2002A to P2002B, P2002B can hear the voice of P2002A but P2002A cannot hear the P2002B.

7. [ENHANCEMENT]

Symptom: SIP alg enhancement. Additional SIP ALG codes to supports SIP server on LAN or WAN

Condition: SIP function has some issues to work correctly.

Topology:



8. [ENHANCEMENT] SPR ID: 061102140

Add PPTP CHAP v2 support.

9. [BUG FIX]

AV side effect fix.

10. [BUG FIX] SPR ID: 061024810

Symptom: Multiple PPPoE cannot use the same PPPoE session ID.

Condition:

Topology: ZyWALL [WAN1] --- PPPoE
[WAN2] --- PPPoE

- (1) Set ZyWALL's WAN1 & WAN2 encapsulations are PPPoE, and connect to different PPPoE servers.
- (2) The WAN1 & WAN2 will get same PPPoE session ID sometimes, this will confuse PPPoE packet flow.

11. [BUG FIX] SPR ID: 060928848, 060928863

Symptom: Mail gets stuck when using VPN + PPPoE

Condition:

Topology:

DeviceA(PPPoE) --- DeviceB --- PC(192.168.2.33)

|
 Mail Server(192.168.70.103)

- (1) Device A behaves as head-quater, device B behaves as branch-office.
- (2) DeviceB makes VPN tunnel to DeviceA, all traffic from PC goes through VPN tunnel to Device A then go out from DeviceA's WAN(PPPoE).

- (3) DeviceA enables AS for WAN->VPN direction.
- (4) PC receives mail from mail server, mail gets stuck.

12. [ENHANCEMENT] SPR ID: 060331694

Add quick timeout mechanism for UDP sessions. This mechanism can for you to search more games in internet by some game platform. If no this mechanism the number of the game you can search is about NAT session number limited.

13. [BUG FIX] SPR ID: 061101036

Symptom: ZyWALL does not get new rating server list after all rating server has been removed.

Condition:

Topology: PC-----(L)ZW5(W)-----Server

- (1) PC sends mails by Mail-Group, and receives mail by outlook.
- (2) Configure Mail-Group to max connection 64, and add attachments to 1M~2M.
- (3) Keep sending and receiving mail until there are all rating servers in the server list has been removed.
- (4) ZyWALL will never update a new rating server list after the all rating server has been removed. The ZyWALL will always query fail.

14. [BUG FIX] SPR ID: 061024840

Symptom: SMTP authentication fails on elias.hp-interex.ch (MX V5.4 AnGc).

Condition:

- (1) Go to eWC>LOGS>Log Settings.
- (2) Set Mail Server of E-mail Log Settings to elias.hp-interex.ch, enable SMTP Authentication and set related SMTP settings.
- (3) The device sends mail will fail on SMTP authentication.

15. [BUG FIX] SPR ID: 060822272

Symptom: ZyWALL will not mail its LOG if the IP specified on the One-To-One Public IP.

Condition:

Topology:

Mail Server-----	(DMZ)	ZyWALL(WAN)
192.168.2.33	192.168.2.1	10.0.0.1
		10.0.0.2

- (1) Restore to default romfile.
- (2) Set NAT type to full feature.
- (3) Build a one-to-one rule for mail server in DMZ.

Local IP	Global IP
192.168.2.33	<-> 10.0.0.2
- (4) In the LOG setting, set mail server IP to 10.0.0.2.
- (5) Then, disable the firewall and press the "Email Log Now" button to send mail.
- (6) You will see the log "SMTP fail (Cannot connect to SMTP server 10.0.0.2)".

16. [BUG FIX]

Symptom: ZyWALL cannot trigger dial backup.

Condition:

Topology:

PC--(LAN)ZyWALL(dial backup)--Internet

- (1) Restore default romfile.
- (2) Set up dial backup.
- (3) PC sets ZyWALL to be DNS proxy server.
- (4) PC starts to ping a domain name, but ZyWALL do not trigger dial backup.

17. [BUG FIX] SPR ID: 061005220

Symptom: Device crashes because of mbuf double free in Anti-Spam.

Condition:

- (1) System crashes sometimes on customer site.

18. [ENHANCEMENT]

Vulnerability bug: It depends on an error in verifying the PKCS-1 padding of the signed hash and we update the patch file from safeNet.

Modifications in V 4.01(WZ.2) | 10/25/2006

Modify for formal release.

Modifications in V 4.01(WZ.2)b1 | 10/18/2006

19. [ENHANCEMENT] SPR ID : 060815905,050414612

We change the ZyWALL break mechanism for the infected file. The ZyWALL just breaks the first infected file packet and stop track the file session in the previous mechanism. The old one has better performance, but there is a risk that it couldn't break the file with more than one virus. Now ZyWALL breaks the first infected file packet and the following file packet as well. It is safer but downs performance for handling infected files. We also fix the line-assembly bug for FTP and HTTP in this enhancement.

20. [ENHANCEMENT] SPR ID: 060809590, 060809591, 060809592.

The Anti-Spam will modify the server response string ""250[-]PIPELINING" to "250[-]PIPE*****". Because ZyWALL does not the SMTP PIPELINING function.

21. [ENHANCEMENT] SPR ID: 060830643

Add an option to enable or disable the "Dynamic ACL" log in ZyWALL.

The check box is in:

- (1) "eWC->LOGS->Log Settings->Dynamic ACL".
- (2) SMT 24.8.
 - I. "sys logs load".
 - II. "sys logs switch dynacllog".
 - III. "sys logs save".
 - IV. "sys logs switch display".

Note: "2006-08-09 00:42:30 Firewall matches a dynamic ACL rule of an ALG session:

TCP 192.168.111.2:50999 66.59.243.66:26397 ACCESS PERMITTED"

Engineer Note: The value in default ROM file is "on" in 4.01.

22. [ENHANCEMENT]

Wording changed. Out of memory when F/W upload.

(1) FTP

Was: file size too large.

Is: file size too large. Please reboot device, and try again.

(2) HTTP/HTTPS

Was: disk full!

Is: disk full! Please reboot device, and try again.

23. [ENHANCEMENT] SPR ID: 060522258

If users let "Redirect URL" in Content Filter be blank, the blocking page will be displayed on the forbidden object only.

24. [ENHANCEMENT] SPR ID: 060925662

In eWC>MAINTENANCE>Time and Date, add "Madrid" capital in "GMT+1" time zone.

25. [FEATURE CHANGE] SPR ID: 060705182, 060705183

WAS: Set "My IP" as WAN2 IP Address in VPN IKE rule, the IKE and IPSec traffic still go through WAN1 because WAN1 has higher metric than WAN2.

IS: The IKE and IPSec packets will be sent out according to "My IP" field in VPN IKE rule.

Engineer note: The bug fix only applies to multiple WAN products.

26. [BUG FIX] SPR ID: 060809598

Symptom: PC can not access the web server (www.fapa.com.pl) via our ZyWALL.

Condition:

PC---(LAN)ZyWALL(WAN)---internet

(1) Get a ZyWALL with default romfile.

(2) Let PC try to access www.fapa.com.pl.

(3) PC can not access the web server.

(4) It is OK without ZyWALL.

Special case packet flow:

Client(PC)

Server(www.fapa.com.pl)

SYN ->

<- ACK = 0

<- SYN, ACK = 1

ACK = 1 ->

HTTP Get ->

27. [BUG FIX] SPR ID: 060711547

Symptom: "Don't block Java/ActiveX/Cookies/Web proxy to trust Web site" function in content filter cannot work.

Condition:

- (1) In eWC->SECURITY->CONTENT FILTER->General page, enable "Content filter" and block "Java Applet/ActiveX/Cookies/Web Proxy".
- (2) In eWC->SECURITY->CONTENT FILTER->Customization page, enable "Web site customization" and "Don't block Java/ActiveX/Cookies/Web proxy to trusted Web sites". Add "web.haccpsoft.it" to "Trusted Web Sites".
- (3) A PC in ZYWALL's LAN side browses "http://web.haccpsoft.it:8080" website.
- (4) Login in and click the date, the popup window should show a calendar instead of another login page.
- (5) It is blocked by content filter.

28. [BUG FIX] SPR ID: 060607461

Symptom: After run 5 hours BT, no traffic can be forwarded by ZyWALL.

Condition:

- (1) Restore to default romfile.
- (2) In NAT port forwarding page, add a rule with port range from 20000 to 40000.
- (3) After running about 5 hours BT, no traffic can pass through ZyWALL.

29. [BUG FIX] SPR ID: 060925635, 060727788.

Symptom: System crashes.

Condition:

- (1) Enable Firewall, Content Filter, IDP, Anti-Virus and Anti-Spam Functions, and turn on all related logs.
- (2) System crashes sometimes.

30. [BUG FIX] SPR ID: 060831744

Symptom: PC cannot ping WLAN interface IP.

Condition:

Topology:

PC1(10.0.0.1)---(10.0.0.2)(WAN)ZyWALL(WLAN)(192.168.7.1)

- (1) Restore default ROM file.
- (2) Disable firewall feature.
- (3) In SMT 24.8, type "ip nat routing 2 1".
- (4) Set WLAN interface IP as "192.168.7.1".
- (5) Set NAT to "Full Feature" mode.
- (6) PC1 generates a PING packet to "192.168.7.1".
- (7) There is no response from "192.168.7.1" and the centralized log will show "Packet without a NAT table entry blocked: ICMP(Echo)"

31. [BUG FIX] SPR ID: 060703050

Symptom: Local PC cannot find Remote Host by NetBIOS via VPN tunnel.

Condition:

PC1---(WLAN)DUT---(VPN)---ZYWALL(LAN)---PC2

- (1) The configured romfile please refer to SPR.
- (2) PC1 cannot see PC2 by NetBIOS via VPN tunnel.

Note: This problem only happens when policy index is not equal to IKE index.

Engineer Note: This problem happens in 4.00 and 4.01.

32. [BUG FIX] SPR:060925632

The firmware of 4.01's self-assigned-certificate can't be used in Mozilla-firefox

33. [BUG FIX] SPR ID: 060908449

Symptom: The ZyWALL assigns a used IP to a DHCP client.

Condition:

Topology ZyWALL(LAN)-----PC1,PC2

(1) Let the PC1 get a DHCP IP(192.168.1.33).

(2) Pull out the cable of PC1 and set PC2 to use a static IP 192.168.1.33.

(3) Plug back the PC1, PC1 starts to get a DHCP IP, but it still gets 192.168.1.33, although the ZyWALL has asked if someone is using this IP and gets a response. IDP module.

Modifications in V 4.01(WZ.1) | 09/06/2006

Modify for formal release.

Modifications in V4.01(WZ.1)b1 | 08/30/2006

1. [ENHANCEMENT]

Support 60 categories in content filtering.

New categories: ""Hacking", "Phishing", "Spyware/Malware Sources", "Spyware Effects/Privacy Concerns", "Open Image/Media Search", "Social Networking", "Online Storage", "Remote Access Tools", "Peer-to-Peer", "Streaming Media/MP3s" and "Proxy Avoidance".

2. [ENHANCEMENT]

Add second time schedule setting in content filtering.

3. [ENHANCEMENT]

Enhance the CI command "ip ifconfig".

(1) Add a new argument "mss" to configure the MSS value.

(2) After finishing the configuration, the interface information will be displayed.

Usage: ip ifconfig [iface] [ipaddr</mask bits>] <broadcast [addr]> <mtu [value]> <mss [value]> <dynamic> <showoff>

Ex: ip ifconfig enif1 192.168.70.222/24 broadcast 192.168.70.250 mtu 1500 mss 1460

4. [ENHANCEMENT]

Add CI command "av zipUnsupport". Processing ZIP file will destroy encrypted file if flag is on, otherwise pass it.

5. [ENHANCEMENT]

Add a CI command to turn on or off the LDAP packet parsing in NAT module.
Usage: "ip nat service ldap [on|off]"

6. [ENHANCEMENT]

Add ALG type on policy route.

7. [BUG FIX]

Symptom: ZyWALL WAN fixed 100/full negotiation fail against cisco 3550/2900.

Condition:

- (1) Configure cisco 3550/2900 port to fixed 100/full.
- (2) Configure ZyWALL WAN to fixed 100/full.
- (3) ZyWALL WAN can not sync up; remain down.

8. [BUG FIX]

Symptom: The DHCP table shows incorrect information.

Condition:

- (1) Set the ZyWALL's DHCP IP Pool Starting Address is 192.168.102.146.
- (2) Add a DHCP static IP 192.168.102.22 for a PC on the LAN.
- (3) Add another PC on the LAN but this PC doesn't have a corresponding DHCP static IP rule, and then it gets 192.168.102.146 from the ZyWALL.
- (4) Go to eWC>Home>DHCP Table, the ZyWALL doesn't show 192.168.102.146, but show 192.168.103.157.

9. [BUG FIX]

Symptom: The packet will be dropped if the device does not have the ARP entry of the receiver of this packet.

Condition:

- (1) Clear ARP table by "CI>ip arp flush".
- (2) Send a ping to 168.95.1.1, but the PC will not get a response in the first ICMP Echo Request.
- (3) After the first ping, the rest of pings can get responses.

10. [BUG FIX]

Symptom: PPTP can not pass through ZyWALL from time to time.

Condition:

Topology:

PPTP server --LAN ZYWALL WAN 1--PPPoE—internet WAN 2--PPPoE--internet

- (1) Choose Active/Active mode in WAN setting.
- (2) Build PPPoE connection both on WAN1 and WAN2
- (3) Set Port forwarding 1723 to LAN PPTP server both on WAN1 and WAN2
- (4) PPTP client builds connection, and disconnect it through WAN1; then PPTP client can not builds PPTP connection through WAN2.

11. [BUG FIX]

Symptom: ZyWALL serial cannot connect one CDMA terminal RWT FCT

CDMA.24.

Condition:

Russia raised this issue that our ZyWALL cannot connect one kind of CDMA terminal RWT FCT CDMA.24, but it is okay when this Terminal connect to P662 and D-Link route. After check, they found when short-circuit the CTR and DTS can make it work (ZyWALL connect to the CDMA)

12. [BUG FIX]

Symptom: Device crashes because of memory double free in Content Filter.

Condition:

- (1) Enable Content Filter and Web site customization.
- (2) After a while, the device will crash sometimes.

13. [BUG FIX]

Symptom: Device crashes when enable CNM agent.

Condition:

- (1) Enable AV/IDP/CNM.
- (2) Disable AS.
- (3) Block LAN to LAN packet from Firewall.
- (4) Make LAN to LAN heavy traffic.

14. [BUG FIX]

Symptom: Trace route fails to get response from our device.

Condition:

Topology:

PC-----(LAN)ZW70(WAN)

- (1) On PC, try trace route a host(www.yahoo.com).
- (2) Trace route cannot get response from our device.

15. [BUG FIX]

Symptom: Device crashes (software watchdog wakes up by NAT).

Condition:

- (1) Restore default romfile.
- (2) After a while, the device will crash sometimes.

16. [BUG FIX]

Symptom: Backing up the configuration of AntiVirus is too slow.

Condition:

- (1) In eWC->SECURITY->ANTI-VIRUS->Backup & Restore, click "Backup" button to backup the AntiVirus configuration.
- (2) Sometimes we need to wait for the popup window for a prolonged period of time.

Modifications in V4.01(WZ.0) | 08/08/2006

Modify for formal release

Modifications in V4.01(WZ.0)b5 | 07/31/2006

1. [BUG FIX]

Symptom: Device crashes when upload F/W.

Condition:

Topology : PC_A == ZyWALL == P1 == PC_B

(1) Build tunnel between PC_A and PC_B and sent TFGEN traffic(1M) between PC_A and PC_B.

(2) Use eWC to upload F/W from ZyWALL's WAN and device crashes.

Modifications in V4.01(WZ.0)b4 | 07/11/2006

2. [BUG FIX]

Symptom: Anti-Spam cannot work in NAT loopback situation.

Condition:

(1) Put PC1 and PC2 on LAN side of ZyWALL.

(2) ZyWALL enables Anti-Spam and disables External Database.

(3) PC2 installs the Merak Mail Server.

(4) PC1 uses the outlook express to send mail to itself by the mail server of PC2.

(5) When the PC1 is sending mails will cause mail stuck until timeout.

3. [BUG FIX]

Symptom: Upload firmware by eWC will cause CPU load 100%.

Condition:

(1) Use GUI to upload firmware will cause CPU 100%.

(2) It will be successful, but need more than 1 minute.

4. [BUG FIX]

Symptom: There should be a progress page when upload F/W by eWC.

Condition:

(1) Goto eWC>Maintenance to upload F/W.

(2) ZyWALL should show a progress page, but it is not.

(3) ZyWALL should display login page after reboot, but it is not.

Modifications in V 4.01(WZ.0)b3 | 06/25/2006

5. [FEATURE CHANGE]

Change log format of Spam mail.

Was: Mail score is higher than threshold - Spam Score:<Score><Title>!<Direction>

Is: Mail score is higher or equal than threshold - Spam

Score:<Score><Title>!<Direction>

6. [FEATURE CHANGE]

Change some wordings which contain "fail back" in GUI and log.

Was: "Fail back ****".

Is: "Fall back ****".

7. [FEATURE CHANGE]

In eWC>BW MGMT>Class Setup page, change wording:

WAS: "filter, to filter, (filter number)", "Filter class Search Order"

IS: "class, to class, (class number)", "Enabled classes Search Order"

8. [FEATURE CHANGE]

WAS: In eWC>HOME page, the memory bar will become red when the percentage of memory usage is over 90%.

IS: In eWC>HOME page, the memory bar will become red when the percentage of memory usage is over 95%.

9. [ENHANCEMENT]

Enlarge Anti-Spam session number from 15 to 100

10. [ENHANCEMENT]

Microsoft cryptographic library supports only odd-sized keys for generating the RSA-modulus. Let the key number of creator primes be odd-size.

Note: Without this enhancement, importing self-signed certificate with PKCS#12 format into MS IE sometimes will fail.

11. [ENHANCEMENT]

(1) In eWC>HOME page, show MAC address in Network Status Table.

[060606360]

(2) Change ZyWALL eWC refresh pages to consistent with HOME page.

[060606359]

12. [BUG FIX]

Symptom: Device will crash in bridge mode AV testing.

Condition: PC(mail client)---(LAN)DUT(WAN)---Mail Server

(1) In bridge mode, enable AV and activate SMTP from LAN to WAN direction.

(2) Disable Outlook SMTP authentication in PC.

(3) PC on LAN and sent out Microsoft Outlook testing mail.

(4) Device will crash immediately.

13. [BUG FIX]

Symptom: ZyWALL WLAN & DMZ ports cannot work in dynamic VLAN ports.

Condition:

(1) Restore default romfile.

(2) Set Port Roles as 1>LAN, 2>LAN, 3>DMZ, 4>WLAN.

(3) Set DMZ IP as 10.10.2.1/24, DHCP as None.

(4) Set Wireless Card bridge to WLAN.

(5) Unplug wireless card and reboot device.

(6) PC connects to DMZ port, IP is 10.10.2.100/24 and gateway is 10.10.2.1, and the PC ping 10.10.2.1 will fail.

14. [BUG FIX]

Symptom: The eWC>Firewall>Default Rule page will popup JavaScript error in router mode.

Condition:

(1) Go to eWC>FIREWALL>Default Rule page.

(2) Click Reset button, ZyWALL pop-ups a JavaScript error.

15. [BUG FIX]

Symptom: Unknown crash.

Condition:

- (1) Restore default romfile.
- (2) Switch device to Active/Active mode, and confirm WAN1 and WAN2 can work fine.
- (3) Set WAN2 ping check point to User-defined.
- (4) After a while, the device sometimes will crash.

16. [BUG FIX]

Symptom: IDP Total Sessions Scanned is wrong.

Condition:

- (1) Enable AV, SMTP service and enable all directions.
- (2) Enable IDP, but disable all traffic direction.
- (3) Attacker sends the mail containing virus to victim via ZyWALL to check if Anti-Virus can detect viruses.
- (4) In eWC>REPORTS>THREAT REPORTS, Total Sessions Scanned of IDP will count number. But it should not.

17. [BUG FIX]

Symptom: ZyWALL crashes if you try to backup Configuration AV or IDP.

Condition:

- (1) Go to eWC>Security>ANTI-VIRUS(or IDP)>Backup & Restore page.
- (2) Click Backup or Restore button.
- (3) System will crash sometimes.

18. [BUG FIX]

Symptom: The ZyWALL should use user configured time server to do daily time adjustment.

Condition:

- (1) Reboot the ZyWALL, set 'abc.abc.edu' as user defined 'Time Server Address'.
- (2) The time synchronization will fail at start-up and use the default built-in time server list.
- (3) The ZyWALL will always use one of built-in time servers to adjust time daily, but the ZyWALL should use user configured time server to do daily time adjustment.

19. [BUG FIX]

Symptom: The IDP should work when the traffic is "from VPN to LAN".

Condition: Topology

PCB-----ZYWALL----tunnel----ZYWALL-----PCA

- (1) Build a tunnel between PCA and PCB.
- (2) Enable IDP and check the direction of "From VPN to LAN" and download a file "eicar.com" by HTTP.
- (3) The IDP doesn't detect the virus.
- (4) But IDP works when you choose 'From LAN to VPN'.

20. [BUG FIX]

Symptom: The device will crash when using VPN manual mode.

Condition: PC1--ZWA--ZWB--PC2

(1) Add a VPN manual mode rule in both ZWA and ZWB and make sure PC1 can ping PC2 through the VPN tunnel.

(2) PC1 ping PC2 continuously.

(3) Unplug the physical link in WAN, the VPN traffic will pass through (ZWA).

(4) ZWA will crash.

21. [BUG FIX]

Symptom: The incorrect data shows on the eWC>THREAT REPORTS>AV.

Condition:

(1) Enable AV and use Edonkey behind the ZyWALL.

(2) The incorrect data shows on the eWC>THREAT REPORTS>AV.

The detect virus name shows 'Unknown Signature' and the Occurrence is very big, even is a negative number.

22. [BUG FIX]

Symptom: Sometimes we cannot login ZyWALL by HTTP or HTTPS after enabling the password hash function.

Condition:

(1) Enable password hash function in SMT 24.8, "sys pwdHash on".

(2) After the convert of password, we can never login by HTTP or HTTPS.

Modifications in V 4.01(WZ.0)b2 | 05/22/2006

1. [FEATURE CHANGE]

The multicast AH or ESP packet will not pass to the VPN module in ZyWALL.

2. [FEATURE CHANGE]

Change wording of one category name in external content filtering.

Was: Streaming Media/MP3

Is: Streaming Media/MP3/P2P

3. [FEATURE CHANGE]

WAS: In SMT 24.8, "ipsec adjTcpMss auto" will let the "IPSec adjust TCP MSS" switch to auto mode.

IS: "ipsec adjTcpMss 0" will change to auto mode.

4. [ENHANCEMENT]

(1) System Resources:

1. Some memory, which is used by running features and system process, has gone in system resource bar. Add back this part of memory in the bar.

2. Give a space between number and MB.

WAS: 19/64MB
IS: 19/64 MB

(2) Time representation:

Modify eWC>home page>Up Time as a running clock.

(3) Firmware Version

Give eWC>Homepage>Firmware Version a hyperlink to eWC>Maintenance>F/W Upload.

(4) Security Services:

1. Give eWC>Homepage>IDP/Anti-Virus Definitions a hyperlink to eWC>IDP>Update.
2. Add eWC>Homepage>IDP/Anti-Virus Expiration Date a hyperlink to eWC>Anti-Virus> Service.
3. Give eWC>Homepage>Anti-Spam Expiration Date a hyperlink to eWC>Registration> Service.
4. Give eWC>Homepage>Content Filter Expiration Date a hyperlink to WC>Registration> Service.

(5) Interfaces

1. Give each eWC>interface a hyperlink to link to the corresponding configuration page.

WAN1/WAN2 link to eWC>Network>WAN page

Dial Backup link to eWC>Network>WAN>Dial Backup page

LAN link to eWC>Network>LAN>LAN page

IP alias1/2 link to eWC>LAN>IP alias 1/2 page

WLAN link to eWC>Network>WLAN>WLAN page

IP alias1/2 link to eWC>WLAN>IP alias 1/2 page

DMZ link to eWC>Network>DMZ>DMZ page

IP alias1/2 link to eWC>DMZ>IP alias 1/2 page

(6) Remove underlines from the links in eWC>Homepage.

(7) Put eWC>Homepage a warning message for Turbo card is not installed.

(8) If there is no Turbo Card installed, the Security Services should be presented accordingly:

WAS: Intrusion Detected 0

Virus Detected 0

IS: Intrusion Detected N/A

Virus Detected N/A

5. [ENHANCEMENT]

Support dual multiple WAN devices for IPSec HA scenario.

6. [ENHANCEMENT]

Change the Anti-Spam wording in log.

WAS: "Mail Parser buffer is overflow!"

IS: "AS checking bypassed as a mail header line exceeds 1024 characters!"

7. [ENHANCEMENT]

(1) Remove the eWC check box: Enable Firewall for VPN traffic.

(2) Remove CI command "ipsec swFwScan on|off".

8. [BUG FIX][060502049]
Symptom: Device crashes when sends large number of mails.
Condition:
(1) Enable Anti-SPAM and external database.
(2) Enable Bandwidth management in WAN and DMZ.
(3) Send and receive large number of mails between DMZ and WAN interface.
(4) Device will crash.

9. [BUG FIX] [060516907]
Symptom: Traffic can't pass VPN tunnel after a long while.
Condition:
Topology:
PC1 (192.168.1.33) --- ZW_A (192.168.70.100) ===== VPN tunnel =====
(192.168.70.200) ZW_B --- (192.168.2.33) PC2

(1) VPN configuration on ZW_A:
IKE 1:
Secure gateway: 192.168.70.200
Enable XAUTH client
SA lifetime = 180 seconds
Policy 1:
Local network: 1.1.1.1/24
Remote network: 2.2.2.2/24
Enable Nail up
SA lifetime = 28800 seconds
Policy 2:
Local network: 192.168.1.33/24
Remote network: 192.168.2.33/24
SA lifetime = 180 seconds

(2) VPN configuration on ZW_B:
IKE 1:
Secure gateway: 192.168.70.100
Enable XAUTH server
SA lifetime = 180 seconds
Policy 1:
Local network: 2.2.2.2/24
Remote network: 1.1.1.1/24
SA lifetime = 28800 seconds
Policy 2:
Local network: 192.168.2.33/24
Remote network: 192.168.1.33/24
SA lifetime = 180 seconds

(3) PC1 ping PC2
(4) After a while the Policy 2 can't be established anymore.

10. [BUG FIX][060517002]

Symptom: Some wordings in "eWC->ANTI-VURUS" are not correct.

Condition:

- (1) Go to "eWC->ANTI-VIRUS->General".
- (2) The wording "POP3 (TCP/UDP 110)" should be "POP3 (TCP 110)"
- (3) The wording "SMTP (TCP/UDP 25)" should be "POP3 (TCP 25)"

11. [BUG FIX][060423782]

Symptom: The device can't enable multiple proposal in IKE rule.

Condition:

- (1) Add an IKE rule using "Preshare key" as authentication type.
- (2) Add another IKE rule using "Certificate" as authentication type, different preshare key and enable the multiple proposal.
- (3) This IKE rule cannot save.

12. [BUG FIX][060515863]

Symptom: In eWC>HOME>Network Status>more page, wireless cannot get correct port status.

Condition:

- (1) Insert G-110 wireless card.
- (2) Switch device to bridge mode.
- (3) Go to eWC>HOME>Network Status>more page.
- (4) The "Port Status" of Wireless Card is 100M/Full, but SMT is 54M.
- (5) The "Port Status" of WLAN Interface has no any information.

13. [BUG FIX][060427219]

Symptom: In PPTP encapsulation, enable VPN, AV and AS, PC can not receive the mail via VPN tunnel.

Condition:

PC1(mail-server:argosoft1.8)--(DMZ)ZW70(WAN:PPPoE)---(WAN:PPTP)ZW5(LAN) -----PC2(Outlook Express)

- (1) Establish a VPN tunnel between ZW70 and ZW5.
- (2) In ZW70, enable AV, disable AS.
- (3) In ZW5, enable AS.
- (4) PC2 can't receive the mail from PC1.

14. [BUG FIX][060424803]

Symptom: ZyWALL crashes after changing MAC address.

Condition:

- (1) Take a registered device and reboot it.
- (2) After device boot up, use CLI "sys my serviceR" to refresh the registration.
- (3) When you get the "Service refresh successfully" message, use the CLI "sys atwz 0000aazzzzzz" (Change the MAC address you want) to change the MAC address.
- (4) Device will crash when rebooting.

15. [BUG FIX][060509567]
Symptom: Bridge mode Network Status Bridge Port loss DMZ port.
Condition:
Bridge mode in GUI Home> Network Status>More> Bridge Port loss DMZ port.

16. [BUG FIX][060509570]
Symptom: VPN rule swap fails on phase one ID check.
Condition:
Topology:
(LAN) Bridge_A (WAN)===== (WAN) Bridge_B(LAN)

(1) On Bridge_A, add a VPN rule:
IKE: Static rule, enable XAUTH and set as client mode.
Local ID: Type=DNS Content = d.c.b.a
Peer ID: Type=DNS Content = a.b.c.d
IPSEC Policy: Local=Single 1.1.1.1, Peer=Single 2.2.2.2

(2) On Bridge_B, add two VPN rules:
1. Rule one:
IKE: Static rule, XAUTH is disabled.
Local ID: Type=DNS Content = a.a.a.a
Peer ID: Type=DNS Content = b.b.b.b
IPSEC: Local=Single 3.3.3.3, Remote=Single 4.4.4.4

2. Rule two:
IKE: Dynamic rule, enable XAUTH and set as server mode.
Local ID: Type=DNS Content = d.c.b.a
Peer ID: Type=DNS Content = a.b.c.d
IPSEC Policy: Local=Single 1.1.1.1, Remote=Single 2.2.2.2

(3) Dial VPN tunnel from Bridge_A to Bridge_B, the VPN tunnel will fail to build up by phase one ID mismatch.

17. [BUG FIX][060426102]
Symptom: User can't receive mail through VPN tunnel when WAN is in PPTP encapsulation.
Condition:
Topology:
PC1 (mail client) --- ZW5 (PPTP) === VPN tunnel === ZW70 ---- PC2 (mail server)

(1) Establish VPN tunnel between ZW5 and ZW70.
(2) ZW5's WAN is PPTP, enable AS.
(3) ZW70's WAN can be any encapsulation type, disable AS.
(4) PC1 receives mail from PC2 but it fails.

18. [BUG FIX][060503068]
Symptom: Asymmetrical route cannot work.

Condition:

Topology as follows:

PC (A) ---- [L]DUT(B)[W] ----- Internet --- HTTP server(D)(66.102.7.104)
| |
-- [L]Router(C)[W] --- Internet

(1) DUT configures a static route that forwarding packets of destination IP 66.102.7.104 through internal link to Router(C).

PC (A)'s default route entry is DUT (B).

Router (c) is NAT enabled.

(2) PC (A) establishes HTTP connection to HTTP server (D).

a. SYN Packet: A -> B (LAN) -> C (LAN) -> C (WAN) -> D.

b. SYN ACK Packet: D -> C (WAN) -> C (LAN) -> A.

c. ACK Packet: A -> B (LAN), and DUT drop it.

19. [BUG FIX][060502057]

Symptom: Trigger port can't be reconnected.

Condition:

Topology:

PC1 (192.168.1.33)-----

(LAN)ZyWALL(WAN:192.168.70.175)-----PC2(192.168.70.176)

(1) Reset to default romfile.

(2) Go to eWC>WAN>WAN1, set WAN IP Address=192.168.70.175.

(3) Go to eWC>NAT>Port Triggering>WAN1 Interface>Index 1, set Name=ftp, Incoming Start Port=21, incoming End Port=110, Trigger Start Port=21,Trigger End Port=21.

(4) Disable Firewall.

(5) PC1 ftp to PC2, and then PC2 ftp to PC1.

(6) PC2 disconnects ftp session and then reconnects to PC1 will be fail, while PC1 ftp session still connected.

20. [BUG FIX][060424820]

Symptom: GUI popup java script error in eWC>NAT>NAT Overview

Condition:

(1) Go to eWC>NAT>NAT, change Max concurrent session per host to 500 and press key "Enter".

(2) ZyWALL popup java script error.

(3) The status bar shows "spSave () fail with Error -6103".

21. [BUG FIX][060502036]

Symptom: The eWC>DNS>DHCP cannot get WAN2 DNS.

Condition:

(1) Restore default romfile.

(2) WAN2 connects to DHCP server and gets IP and DNS successfully.

(3) Go to eWC>DNS>DHCP page, the IP field cannot get WAN2 DNS.

22. [BUG FIX][060427214]

Symptom: Redundant gateway sometimes can't be saved if it's in domain name format.

Condition:

- (1) Create an IKE rule with IPSEC HA is enabled.
- (2) Configure a non-exist domain name as redundant gateway.
- (3) Let Domain Name Update Timer query this non-exist domain name. It will fail.
- (4) Try to modify the domain name with a correct one and save it.
- (5) Several minutes later, users will find the domain name has not been changed; it's still the old one.

23. [BUG FIX][060329452]

Symptom: In eWC>VPN, VPN Rules page shows incorrect domain name.

Condition:

- (1) Go to eWC>DNS>DDNS, set a WAN domain name as "123456789.123456789.123456789.123456789.123456789.123".
- (2) Go to eWC>VPN, create a VPN rule using My domain as "123456789.123456789.123456789.123456789.123456789.123".
- (3) While applying the setting, VPN Rules page shows incorrect domain name.

24. [BUG FIX][060420654]

Symptom: Wireless client still can scan wireless network after disabled wireless card.

Condition:

- (1) Plug in G100/G110 wireless card.
- (2) Go to eWC/Network/Wireless Card/Wireless Card, enable wireless card and set ESSID as "testWlan".
- (2) Wireless Client can scan the "testWlan" network by Odyssey tool.
- (3) Disable wireless card.
- (4) Wireless Client still can scan the "testWlan" network by Odyssey tool.

25. [BUG FIX][060426084]

Symptom: ZyWALL crashes when setting NAT address mapping rules.

Condition:

- (1) Go to eWC>NAT>Address Mapping page.
- (2) Add a new rule, configure
Type= Many-to-Many-Overload,
Local Start IP= 1.1.1.1
Local End IP= 3.3.3.3
Global Start IP= 4.4.4.4
Global End IP= 5.5.5.5
- (3) Click "Apply" button, then ZyWALL crashes.

26. [BUG FIX][060424869]

Symptom: Change WAN IP in GUI, the "Private" option in SMT11.1->Edit IP will be set as "NO".

Condition:
(1) Go to SMT11.1, configure Encapsulation as "PPPoE" or "PPTP".
(2) Go to SMT11.1->Edit IP, change "Private" to "Yes".
(3) Go to eWC->WAN->WAN1, set IP as static IP address.
(4) Go to SMT11.1->Edit IP, the value of "Private" will become "No".

27. [BUG FIX][060426102]
Symptom: NAT Many-to-Many Overload rule cannot be set in eWC.
Condition:
(1) Go to eWC>NAT>Address Mapping page, click "Insert" button.
(2) In NAT - ADDRESS MAPPING page, select Type= Many-to-Many Overload.
(3) Click the "Apply" button, and the status shows "Extra characters were detected in the item".

28. [BUG FIX][060424823]
Symptom: NAT historical high NAT session per host will over one session than Max concurrent session per host.
Condition:
(1) Go to eWC>NAT>NAT overview, change Max concurrent sessions per host to 500.
(2) Use BluePortScan to do port scan.
(3) Historical high session per host is 501.

29. [BUG FIX][060423784]
Symptom: Anti-Spam cannot work in NAT loop back situation.
Condition:
(1) Put PC1 and PC2 on LAN side of ZyWALL.
(2) ZyWALL enables Anti-Spam and disables External Database.
(3) PC2 installs the Merak Mail Server.
(4) PC1 uses the outlook express to send mail to itself by the mail server of PC2.
(5) When the PC1 is sending mails will cause mail stuck until timeout.

30. [BUG FIX][060412729]
Symptom: Device responds an invalid sysObjectID value while SNMP browsing.
Condition:
(1) Restore default romfile.
(2) MIB browser connects to device and will get invalid value enterprises.890.1.2(prestige).

31. [BUG FIX][060420625]
Symptom: VPN can be successfully built up with wrong IPSec rule.
Condition:
Topology:
(LAN) ZyWALL_A (WAN)===== (WAN) Bridge_B (LAN)
(1) On ZyWALL A, add a VPN rule:

IKE: Static rule, enable XAUTH and set as client mode.
 IPSEC Policy: Local=Single 1.1.1.1, Remote=Single 2.2.2.2

(2) On Bridge_B, add two VPN rules:

1. Rule one:
 IKE: Static rule, enable XAUTH and set as server mode.
 IPSEC: Local=Single 3.3.3.3, Remote=Single 4.4.4.4
2. Rule two:
 IKE: Dynamic rule. XATUTH is disabled.
 IPSEC Policy: Local=Single 1.1.1.1, Remote=Single 2.2.2.2

(3) Dial VPN tunnel from ZyWALL_A to Bridge_B, the VPN tunnel will be successfully built up with Bridge_B's rule two.

32. [BUG FIX][060411623]
 Symptom: The eWC>Firewall>Default Rule page will pup up JavaScript error in bridge mode.
 Condition:
 (1) Go to eWC>FIREWALL>Default Rule page.
 (2) Click Reset button, ZyWALL pup up JavaScript error.

33. [BUG FIX][060425022]
 Symptom: Device crash (Soft watchdog starts up.)
 Condition:
 (1) Firewall+NAT+AV+IDP+AS+AS black list+LB
 (2) LAN has a mail client、mail server ; DMZ has a mail client、2 mail server ; WLAN has a mail client. All of them are on IxLoad
 (3) Run IxLoad 10 minutes , device crash

34. [BUG FIX][060418336]
 Symptom: Traffic can't go out after use the tfgen tool.
 Condition:
 (1) Restore default rom file.
 (2) In LAN, use the TfGen with following setting.
 Utilization: 40000
 Destination: 168.95.1.1
 Port: 777
 After use the tfgen, all the traffic from LAN can't go outside.

Modifications in V 4.01(WZ.0)b1 | 04/24/2006

1. [ENHANCEMENT]
 (1) Add UTM reports for IDP/AV/AS.
 (2) Change linkage from GUI>Logs>Reports to GUI>UTM Reports>System Reports.
 (3) Re-layout UTM Home GUI for ZyWALL 4.01.

2. [ENHANCEMENT]
Add redundant IPSec gateway (IPSec HA).
3. [ENHANCEMENT]
IPSec traffic can be managed by security rule (IDP/AV/AS/FW/CF/BM)
4. [FEATURE CHANGE]
Was: IPSec auto-build tunnel command can only build tunnels with same secure gateway IP.
Is: Users can automatically build VPN tunnels with incremental secure gateway IP addresses.
Usage of CLI command: `ipsec build<secure gateway> <local IP address> <remote IP address> <Nailed-Up> <num> <Control ping>` in which
5. [ENHANCEMENT]
Add direction matrix setting in Firewall/AV/AS/IDP.
6. [ENHANCEMENT]
Change weighting of Anti SPAM servers based on average time and fail rate.
7. [ENHANCEMENT]
 - (1) Add CI command to see the runtime data for AntiSpam.
"as display runtimedata <all|black|white> [all|ip|mime|email|subject]"
 - (2) Wildcard support for subject and email fields in black list and white list.
 1. Support "*" to indicate match any character 0 or more times.
 2. It is case-insensitive.
 3. The maximum length of the email and subject fields is 63 characters.
8. [ENHANCEMENT]
Add PKCS12 for ZynOS.
9. [ENHANCEMENT]
WLAN Zone enhancement.
 - (1) ZyWALL has an independent WLAN Zone interface, no matter WLAN card.
 - (2) WLAN card is not the independent WLAN interface.
 - (3) WLAN card can be bridged to LAN, DMZ and WLAN Zone interface.
10. [ENHANCEMENT]
support WLAN in "ip nat routing" CI command. Turn on this option for LAN/DMZ/WLAN, packets will be routed when it cannot match any NAT rule.
11. [ENHANCEMENT].
Add a CI command "ip alg ftpPortNum [port number]" to support a different port number on FTP ALG. This port is an additional FTP ALG port, the original FTP port(21) still works. Note: This CI command will not save to SPT, so user will need to put into autoexec.net if they want to keep the setting.
12. [ENHANCEMENT]
Consolidate "Router reply ICMP packet" log.
 - (1) Router reply ICMP packet: ICMP(Port Unreachable).
 - (2) Router reply ICMP packet: ICMP(Host Unreachable).
13. [ENHANCEMENT]
Add a CI command "sys arp ackGratuitous", let ZyWALL to support gratuitous ARP request and update MAC mapping on ARP table for the sender of this ARP request. There are two subcommands under "ackGratuitous":

- (1) "active [yes|no)": Let ZyWALL accept gratuitous ARP request.
- (2) "forceUpdate [on|off]" If zywall ARP table already had target IP address ARP entry, forceUpdate option will update the exist MAC mapping to new one.

14. [FEATURE CHANGE]

WAS: The ZyWALL uses a fixed NTP server list with 10 NTP servers to adjust the system time.

IS: Use 0.pool.ntp.org, 1.pool.ntp.org, 2.pool.ntp.org instead of specific NTP servers to adjust the system time.

The pool.ntp.org is a virtual cluster of timeservers, it uses a round robin way to provide different NTP server to clients.

Appendix 1 Remote Management Enhancement (Add SNMP & DNS Control)

New function

- (1) You can change the server port.
- (2) You can set the security IP address for each type of server.
- (3) You can define the rule for server access. (WAN only/LAN only, None, ALL).
- (4) The secure IP and port of the SNMP server is read only
- (5) The port of the SNMP and DNS server is read only.

(6) The default server access of the SNMP and DNS is ALL.

Modification

- (1) The default value for Server access rule is **ALL**.
- (2) Under the default setting: You can setup the Menu 15 to forwarding the server to LAN IP address. Thus you can configure the router through the WAN and you don't need to modify the server management or filter.

Menu 24.11 - Remote Management Control

TELNET Server:	Port = 23	Access = ALL
	Secured Client IP = 0.0.0.0	
FTP Server:	Port = 21	Access = ALL
	Secured Client IP = 0.0.0.0	
SSH Server:	Port = 22	Access = ALL
	Secured Client IP = 0.0.0.0	
Web Server:	Port = 80	Access = ALL
	Secured Client IP = 0.0.0.0	
SNMP server:	Port = 161	Access = ALL
	Secured Client IP = 0.0.0.0	
DNS server:	Port = 53	Access = ALL
	Secured Client IP = 0.0.0.0	

Press ENTER to Confirm or ESC to Cancel:

Appendix 2 Trigger Port

Introduction

Some routers try to get around this "one port per customer" limitation by using "triggered" maps. Triggered maps work by having the router watch **outgoing** data for a specific port number and protocol. When the router finds a match, it remembers the IP address of the computer that sent the matching data. When the requested data wants to come back **in** through the firewall, the router uses the port mapping rules that are linked to the trigger, and the IP address of the computer that "pulled" the trigger, to get the data back to the proper computer.

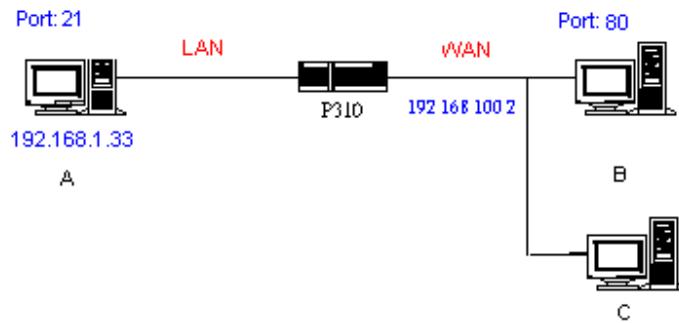
These triggered events can be timed so that they erase the port mapping as soon as they are done with the data transfer, so that the port mapping can be triggered by another Client computer. This gives the **illusion** that multiple computers can use the same port mapping at the same time, but the computers are really just taking turns using the mapping.

How to use it

Following table is a configuration table.

Name	Incoming	Trigger
Napster	6699	6699
Quicktime 4 Client	6970-32000	554
Real Audio	6970-7170	7070
User	1001-1100	1-100

How it works



For example, you are running a FTP Server on port 21 of machine A. And you may want this server accessible from the Internet without enabling NAT-based firewall. There are one Web Server on port 80 of machine B and another client C on the Internet.

- (1) As Prestige receives a packet from a local client A destined for the outside Internet machine B, it will check the destination port in the TCP/UDP header to see if it matches the setting in "Trigger Port" (80). If it matches, Prestige records the source IP of A (192.168.1.33) in its internal table.
- (2) Now client C (or client B) tries to access the FTP server in machine A. When Prestige to forward any un-requested traffic generated from Internet, it will first check the rules in port forwarding set. When no matches are found, it will then check the

"Incoming Port". If it matches, Prestige will forward the packet to the recorded IP address in the internal table for this port. (This behavior is the same as we did for port forwarding.)

- (3) The recorded IP in the internal table will be cleared if machine A disconnects from the sessions that matches the "Trigger Port".

Notes

- (1) Trigger events can't happen on data coming from *outside* the firewall because the NAT router's sharing function doesn't work in that direction.
- (2) Only one computer can use a port or port range at a time on a given real (ISP assigned) IP address.

Appendix 3 Hard-coded packet filter for "NetBIOS over TCP/IP" (NBT)

The new set C/I commands is under "sys filter netbios" sub-command. Default values of any direction are "Forward", and trigger dial is "Disabled".

There are two CI commands:

(1) "sys filter netbios disp": It will display the current filter mode.

Example ouput:

```
===== NetBIOS Filter Status =====
```

LAN to WAN:	Block
WAN to LAN:	Forward
IPSec Packets:	Forward
Trigger Dial:	Disabled

(2) "sys filter netbios config <type> {on|off}": To configure the filter mode for each type. Current filter types and their description are:

Type	Description	Default mode
0	LAN to WAN	Forward
1	WAN to LAN	Forward
6	IPSec pass through	Forward
7	Trigger dial	Disabled

Example commands:

sys filter netbios config 0 on => block LAN to WAN NBT packets

sys filter netbios config 1 on => block WAN to LAN NBT packets

sys filter netbios config 6 on => block IPSec NBT packets

sys filter netbios config 7 off => disable trigger dial

Appendix 4 Traffic Redirect/Static Route Application Note

Why traffic redirect/static route be blocked by ZyWALL

ZyWALL is the ideal secure gateway for all data passing between the Internet and the LAN. For some reasons (load balance or backup line), users want traffics be re-routed to another Internet access devices while still be protected by ZyWALL. The network topology is the most important issue. Here is the common example that people misemploy the LAN traffic redirect and static route.

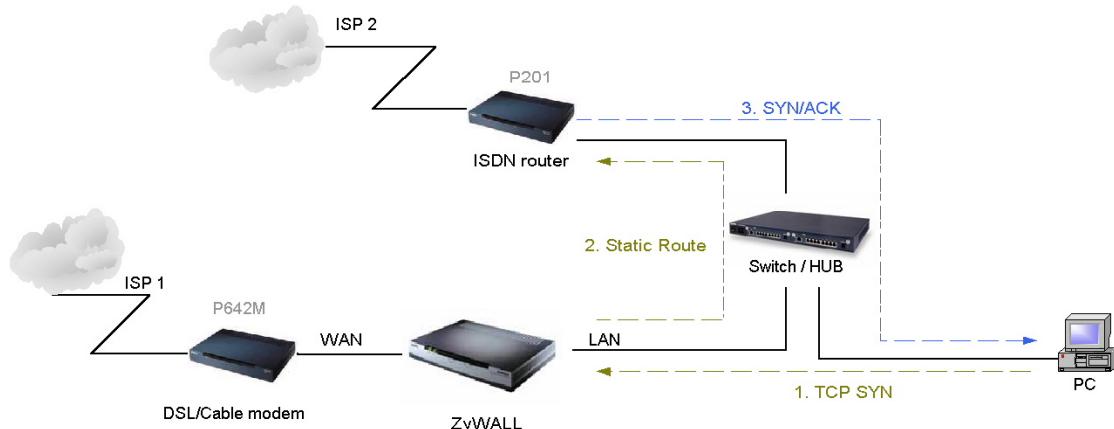


Figure 5-1 Triangle Route

Figure 5-1 indicates the triangle route topology. It works fine with turn off firewall. Let's take a look into the perspective toward this situation.

- Step 1. PC sends outgoing traffics through ZyWALL because default gateway assigned to it.
- Step 2. Then, ZyWALL will redirect the traffics to another gateway (ISDN/Router) as we expect.
- Step 3. But the return traffics do not go through ZyWALL because the gateway (say, P201) and the PC are on the same IP network. **Any traffic will easily inject into the protected network area through the unprotected gateway.**
- Step 4. When firewall turns on, it could be worse. ZyWALL will check the outgoing traffics by ACL and create dynamic sessions to allow legal return traffics. For Anti-DoS reason, ZyWALL will send RST packets to the PC and the peer because it never received TCP SYN/ACK packet.

That causes all of outgoing TCP traffics being reset!

How traffic redirect/static route works under protection - Solutions

(1) Gateway on alias IP network

IP alias allows you to partition a physical network into different logical IP networks over the same Ethernet interface. The ZyWALL supports three logical LAN interfaces via its single physical Ethernet interface with the ZyWALL itself as the gateway for each LAN network. Division of protected LAN and the other gateway into different subnets will trigger the incoming traffic back to ZyWALL and it can work as

normal function.

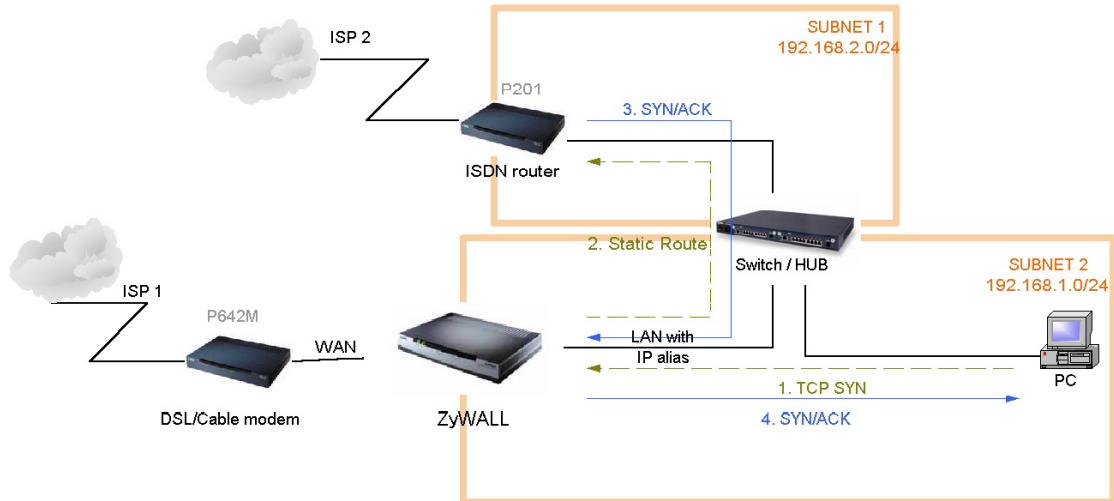


Figure 5-2 Gateway on alias IP network

(2) Gateway on WAN side

A working topology is suggested as below.

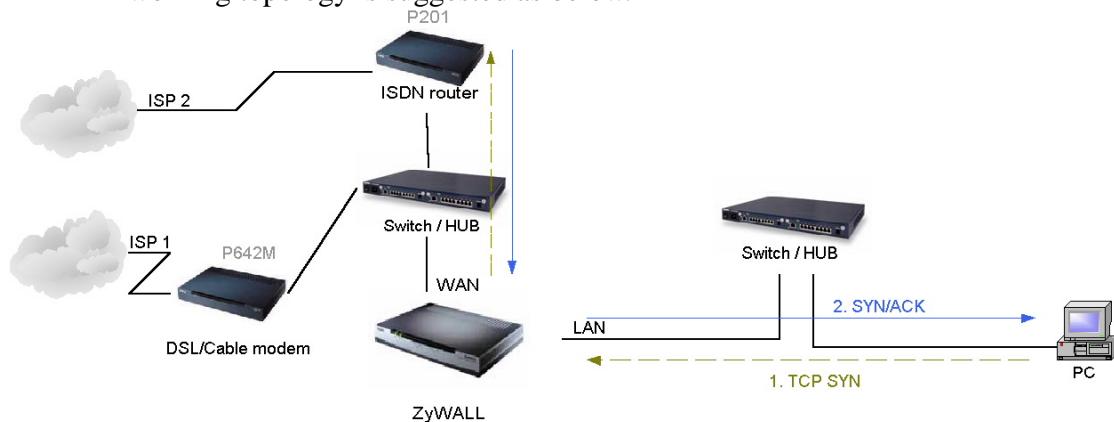


Figure 5-3 Gateway on WAN side

Appendix 5 IPSec FQDN support

ZyWALL A ----- Router C (with NAT) ----- ZyWALL B
 (WAN) (WAN) (LAN) (WAN)

If ZyWALL A wants to build a VPN tunnel with ZyWALL B by passing through Router C with NAT, A can not see B. It has to secure gateway as C. However, ZyWALL B will send its packet with its own IP and its ID to ZyWALL A. The IP will be NATed by Router C, but the ID will remain as ZyWALL B sent.

In FQDN design, all three types, IP, DNS, E-Mail, can set ID content. For ID type is DNS or E-mail, the behavior is simple. ZyWALL A and ZyWALL B only checks the ID

contents are consistent and they can connect.

Basically the story is the same when ID type is IP. If user configures ID content, then ZyWALL will use it as a check. So the ID content also has to match each other. For example, ID type and ID content of incoming packets must match “Peer ID Type” and “Peer ID content”. Or ZyWALL will reject the connection.

However, user can leave “ID content” blank if the ID type is IP. ZyWALL will put proper value in it during IKE negotiation. This appendix describes all combinations and behaviors of ZyWALL.

We can put all combinations in to these two tables:

(Local ID Type is IP):

Configuration		**Run-time status	
My IP Addr	Local ID Content	My IP Addr	Local ID Content
0.0.0.0	*blank	My WAN IP	My WAN IP
0.0.0.0	a.b.c.d (it can be 0.0.0.0)	My WAN IP	a.b.c.d (0.0.0.0, if user specified it)
a.b.c.d (not 0.0.0.0)	*blank	a.b.c.d	a.b.c.d
a.b.c.d (not 0.0.0.0)	e.f.g.h (or 0.0.0.0)	a.b.c.d	e.f.g.h (or 0.0.0.0)

*Blank: User can leave this field as empty, doesn't put anything here.

**Runtime status: During IKE negotiation, ZyWALL will use “My IP Addr” field as source IP of IKE packets, and put “Local ID Content” in the ID payload.

(Peer ID Type is IP):

Configuration		*Run-time check
Secure Gateway Addr	Peer ID Content	
0.0.0.0	blank	Just check ID types of incoming packet and machine's peer ID type. If the peer's ID is IP, then we accept it.
0.0.0.0	a.b.c.d	System checks both type and content
a.b.c.d	blank	1. System will check the ID type and the content. 2. The contents will match only if the ID content of coming packet is a.b.c.d because system will put Secure Gateway Address as Peer ID content.
a.b.c.d	e.f.g.h	1. System will check the ID type and the content. 2. The contents will match only if the ID content of coming packet is e.f.g.h.

*Runtime Check: During IKE negotiation, we will check ID of incoming packet and see if it matches our setting of “Peer ID Type” and “Peer ID Content”.

Summary:

1. When Local ID Content is blank which means user doesn't type anything here, during IKE negotiation, my ID content will be "My IP Addr" (if it's not 0.0.0.0) or local's WAN IP.
2. When "Peer ID Content" is not blank, ID of incoming packet has to match our setting. Or the connection request will be rejected.
3. When "Secure Gateway IP Addr" is 0.0.0.0 and "Peer ID Content" is blank, system can only check ID type. This is a kind of "dynamic rule" which means it accepts incoming request from any IP, and these requests' ID type is IP. So if user put a such kind of rule in top of rule list, it may be matched first. To avoid this problem, we will enhance it in the future.

Appendix 6 Embedded HTTPS proxy server

HTTPS (Hypertext Transfer Protocol over Secure Socket Layer, or HTTP over SSL) is a Web protocol developed by Netscape and built into its browser that encrypts and decrypts user page requests as well as the pages that are returned by the Web server. HTTPS is really just the use of Netscape's Secure Socket Layer (SSL) as a sublayer under its regular HTTP application layering.

The ZyWALL's embedded HTTPS proxy server is basically an SSL server which performs SSL transactions, on behalf of the embedded HTTP server, with an SSL client such as MSIE or Netscape. As depicted by the figure below, when receiving a secure HTTPS request from an SSL-aware Web browser, the HTTPS proxy server converts it into a non-secure HTTP request and sends it to the HTTP server. On the other hand, when receiving a non-secure HTTP response from the HTTP server, the HTTPS proxy server converts it into a secure HTTPS response and sends it to the SSL-aware Web browser.

By default, the HTTPS proxy server listens on port 443 instead of the HTTP default port 80. If the ZyWALL's HTTPS proxy server port is changed to a different number, say 8443, then the URL for accessing the ZyWALL's Web user interface should be changed to <https://hostname:8443> accordingly.

Appendix 7 Multiple WAN Access

Because of the expansion of broad band service, the bandwidth is more and more cheap. Some of audio and video applications become usable, such as VoIP and video conference. The company will subscribe several links for different application. They may use it for VoIP, Backup line, Load sharing, and extend bandwidth. Thus they will need a device to manage these kinds of application.

The ZyWALL has two independent WAN ports, so it offers the ability to configure a secondary WAN port for highly reliable network connectivity and robust performance. The user can connect WAN 1 to one ISP(or network), and connect the other to a second

ISP(or network). This secondary WAN port can be used in “active-active” load sharing or fail-over configuration providing a highly efficient method for maximizing total network bandwidth.

The default mode of the WAN 2 interface is “Active-Passive” or “Fail-Over” mode, that is the secondary WAN will automatically “bring-up” when the first WAN fails. The user can enter eWC/WAN/General page to select WAN to “Active/Active” mode. At “Active/Active” mode, ZyWALL can access internet through WAN 1 and WAN 2 simultaneously. The user also can setup policy route rule and static route rule to specify the traffic to certain link. ZyWALL Connectivity Check will check the connectivity of WAN 1, WAN 2 and Traffic Redirect. Please notice that even at the “Active/Active” mode, WAN 2 is still the backup line of WAN 1, and WAN 1 is also the backup line of WAN 2.

The user can use policy routing to specify the WAN port that specific services go through. If one WAN port’s connection goes down, the ZyWALL can automatically send its traffic through the other WAN port, if the user allows this traffic to use the other WAN port.

The ZyWALL NAT feature allows the user to give two separate sets of rules(NAT Mapping rules and Port Forwarding rules) for WAN 1 and WAN 2.

The DDNS also has the high availability feature based on Multiple WAN. That is the ZyWALL can use the other WAN interface for domain names if the original configured WAN interface goes down.

Appendix 8 Wi-Fi Protected Access

Wi-Fi Protected Access(WPA) is a subset of the IEEE 802.11i. WPA improves data encryption by using TKIP, MIC and IEEE 802.1X. Because WPA applies 802.1X to authenticate WLAN users by using an external RADIUS server, so you can not use the Local User Database for WPA authentication.

For those users in home or small office, they have no RADIUS server, WPA provides the benefit of WPA through the simple “WPA-PSK”. Pre-Shared Key(PSK) is manually entered in the client and ZyWALL for authentication. ZyWALL will check the client PSK and allow it join the network if it’s PSK is matched. After the client pass the authentication, ZyWALL will derived and distribute key to the client, and both of them will use TKIP process to encrypt exchanging data.

Appendix 9 IPSec IP Overlap Support

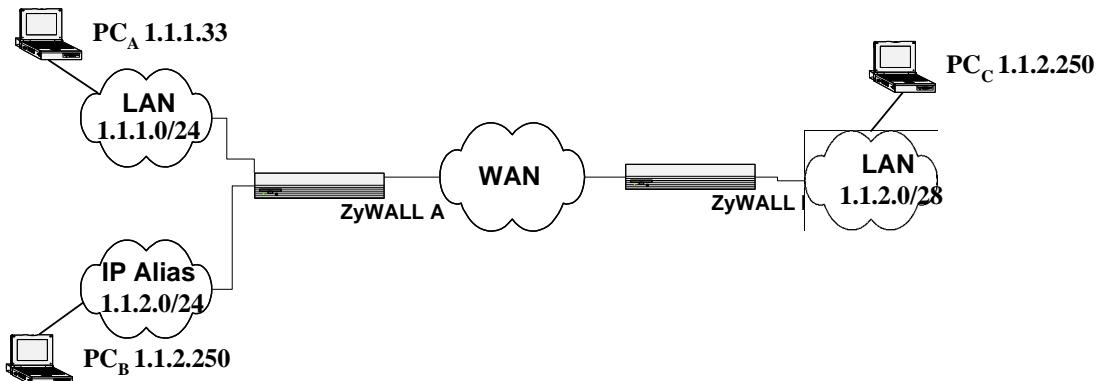


Figure 1

The ZyWALL uses the network policy to decide if the traffic matches a VPN rule. But if the ZyWALL finds that the traffic whose local address overlaps with the remote address range, it will be confused if it needs to trigger the VPN tunnel or just route this packet.

So we provide a CI command “ipsec swSkipOverlapIp” to trigger the VPN rule. For example, you configure a VPN rule on the ZyWALL A as below:

```
Local IP Address Start= 1.1.1.1      End= 1.1.2.254  
Remote IP Address Start= 1.1.2.240    End = 1.1.2.254
```

You can see that the Local IP Address and the remote IP address overlap in the range from 1.1.2.240 to 1.1.2.254.

(1) Enter “ipsec swSkipOverlapIp off”:

To trigger the tunnel for packets from 1.1.1.33 to 1.1.2.250. If there is traffic from LAN to IP Alias (Like the traffic from PC_A to PC_B in Figure 1), the traffic still will be encrypted as VPN traffic and routed to WAN, you will find their traffic disappears on LAN.

(2) Enter “ipsec swSkipOverlapIp on”:

Not to trigger the tunnel for packets from 1.1.1.33 to 1.1.2.250. Even the tunnel has been built up, the traffic in this overlapped range still cannot be passed.

[Note]

If you configure a rule on the ZyWALL A whose

```
Local IP Address Start= 0.0.0.0  
Remote IP Address Start= 1.1.2.240 End = 1.1.2.254
```

No matter swSkipOverlapIp is on or off, any traffic from any interfaces on the ZyWALL A will match the tunnel. Thus swSkipOverlapIp is not applicable in this case.

Appendix 10 VPN Local IP Address Limitation

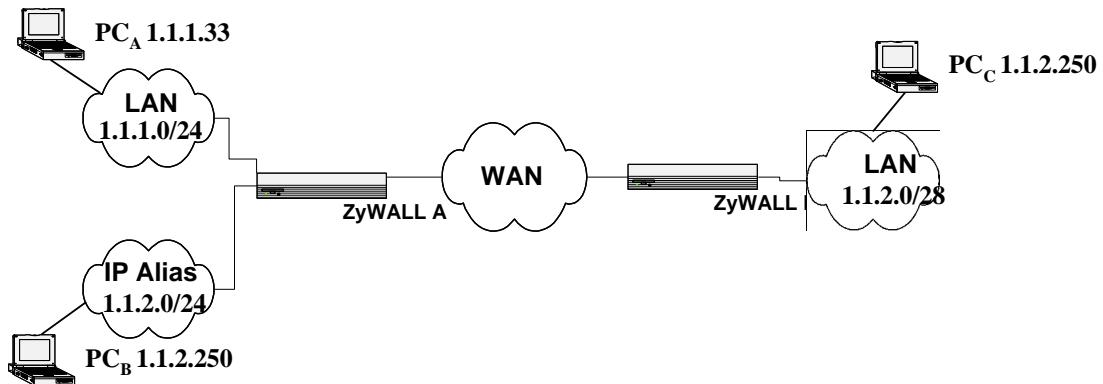


Figure 1

There is a limitation when you configure the VPN network policy to use any Local IP address. When you set the Local address to 0.0.0.0 and the Remote address to include any interface IP of the ZyWALL at the same time, it may cause the traffic related to remote management or DHCP between PCs and the ZyWALL to work incorrectly. This is because the traffic will all be encrypted and sent to WAN.

For example, you configure a VPN rule on the ZyWALL A as below:

Local IP Address Start= 1.1.1.1 End= 1.1.2.254
Remote IP Address Start= 1.1.2.240 End = 1.1.2.254

ZyWALL LAN IP = 1.1.1.10

ZyWALL LAN IP falls into the Local Address of this rule, when you want to manage the ZyWALL A from PC_A, you will find that you cannot get a DHCP Client IP from the ZyWALL anymore. Even if you set your IP on PC_A as static one, you cannot access the ZyWALL.

Appendix 11 VPN rule swap limitation with VPN Client on XAuth

Example 1:

ZyWALL (WAN)----- VPN Client
(IP:1.1.1.1) (IP:1.1.1.2)

ZyWALL VPN Rule: Two IKE rule	
➤ Dynamic IKE rule: Security Gateway: 0.0.0.0 X-Auth: Server I. Policy one: <ul style="list-style-type: none">- Name: "Rule_A"- Local: 192.168.2.0/24- Remote: 0.0.0.0	➤ Static IKE rule: Security Gateway: 1.1.1.2 X-Auth: None I. Policy one: <ul style="list-style-type: none">- Name: "Rule_B"- Local: 192.168.1.0/24- Remote: 1.1.1.2/32

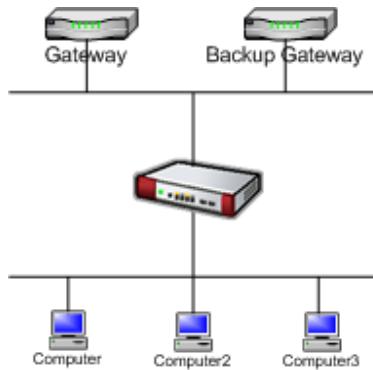
ZyXEL VPN Client
Security Gateway: 1.1.1.1
Phase one Authentication method: Preshare Key
Remote: 192.168.1.0/24

In example 1, user may wonder why ZyWALL swap to dynamic rule even VPN client only set authentication method as “Preshare Key” not “Preshare Key+XAuth”. The root cause is that currently ZyXEL VPN Client will send XAuth VID no matter what authentication mode that him set. Because of the XAuth VID, ZyWALL will swap to dynamic rule.

This unexpected rule swap result is a limitation of our design. For ZyWALL, when we got initiator’s XAuth VID in IKE Phase One period, we know initiator can support XAuth. To take account of security, we will judge that initiator want to do XAuth, and we will search one matched IKE Phase One rule with XAuth server mode as the top priority. To our rule swap scheme, we search static rule first then dynamic rule. In example 1, we will find the static rule, named “Rule_B”, to build phase one tunnel at first. After finished IKE phase one negotiation, we known initiator want to do XAuth. Since Rule_B has no XAuth server mode, we try to search another rule with correct IKE Phase One parameter and XAuth server mode. The search result will lead us to swap rule to dynamic rule, named “Rule_A”. Thus to build VPN tunnel will fail by Phase Two local ip mismatch.

To avoid this scenario, the short-term solution is that we recommend user to set two IKE rule with different Phase One parameter. The long-term solution is that VPN Client needs to modify the XAuth VID behavior. VPN Client should not send XAuth VID when authentication method is “Preshare key”, but send XAuth VID when authentication method is “Preshare key+XAuth”.

Appendix 12 The mechanism of Gratuitous ARP in the ZyWALL



In the past, if the ZyWALL gets a gratuitous ARP it will not update the sender's MAC mapping into its ARP table. In current design, if you turn on 'ip arp ackGratuitous active yes', the ZyWALL will response such packet depends on two case: 'ip arp ackGratuitous forceUpdate on' or 'ip arp ackGratuitous forceUpdate off'. if you turn

on forceUpdate, then the ZyWALL gets gratuitous ARP, it will force to update MAC mapping into the ARP table, otherwise if turn off forceUpdate, then the ZyWALL gets gratuitous ARP, it will update MAC mapping into the ARP table only when there is no such MAC mapping in the ARP table.

Give an example for its purpose, there is a backup gateway on the network as the picture. One day, the gateway shuts down and the backup gateway is up, the backup gateway is set a static IP as original gateway's IP, it will broadcast a gratuitous ARP to ask who is using this IP. If ackGratuitous is on, the ZyWALL receive the gratuitous ARP from the backup gateway, it will also send an ARP request to ask who is using this IP. Once the ZyWALL gets a reply from backup gateway, it will update its ARP table so that the ZyWALL can keep a correct gateway ARP entry to forward packets. If ackGratuitous is off, the ZyWALL will not keep a correct gateway ARP entry to forward packets.

There is one thing need to be noticed: update the ARP entry might still have dangers more or less if there is a spoofing attack. So we suggest if you have no opportunity to meet the problem, you can turn off ackGratuitous. forceUpdate on will be more dangerous than forceUpdate off because it update ARP table even when ARP entry is existing.

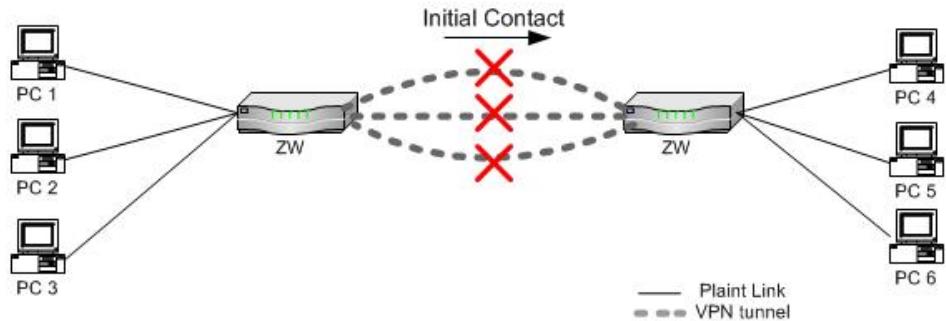
Appendix 13 The mechanism when the ZyWALL receives a IKE packets with IC

[RFC 2407]The INITIAL-CONTACT(IC) status message may be used when one side wishes to inform the other that this is the first SA being established with the remote system. The receiver of this Notification Message might then elect to delete any existing SA's it has for the sending system under the assumption that the sending system has rebooted and no longer has access to the original SA's and their associated keying material.

The ZyWALL has two ways to delete SA when it receives IC, it is switched by a global option 'ipsec initContactMode gateway/tunnel':

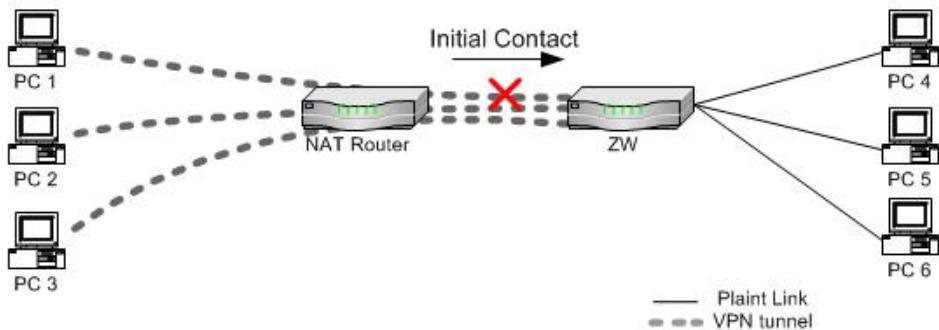
(1)ipsec initContactMode gateway

When the ZyWALL receives a IKE packets with IC, it deletes all tunnels with the same secure gateway IP. It is default option because the ZyWALL is site to site VPN device. Take the picture 1 as example, there are three VPN tunnels are created between ZWA and ZWB, but ZWA reboots for some reasons, and after rebooting, the ZWA will send a IKE with IC to the ZWB, then the ZWB will delete all existing tunnels whose security gateway IP is the same as this IKE's one and build a new VPN tunnel for the sender.



(2) ipsec initContactMode tunnel

When the ZyWALL receives a IKE packets with IC, it deletes only one existing tunnel, whose security gateway IP is not only the same as this IKE's one and also its phase 2 ID(network policy) should match. It is suitable when your tunnel is created from a VPN peer to ZyWALL and there are more than two this kind of VPN peers build tunnels behind the same NAT router. Take the picture 2 as example, PC 1, PC2 and PC3 has its own VPN software to create tunnels with ZW. Suppose that the PC1, PC2 and PC3 separately create different tunnels with ZW for the traffic to PC4, PC5 and PC6, once the PC1 reboots for some reasons, and after rebooting, the PC1 sends a IKE with IC to the ZWB, then the ZWB will only delete the tunnel which is used by PC1 and PC4 and build a new VPN tunnel for it. So other tunnels will not be disconnected.



Appendix 14 The topologies ZyWALL doesn't support:

Previously, the ZyWALL supports most of SIP topologies except:

- (1) SIP server on the ZyWALL's LAN/DMZ/WLAN.
- (2) Two SIP clients behind the ZyWALL and talk to each other.

Now we have solved these two problems, all directions of SIP calls can work. You can refer to the Figure 1, all of the SIP clients in the picture can register to the SIP server behind the ZyWALL and any two SIP clients can talk to each other.

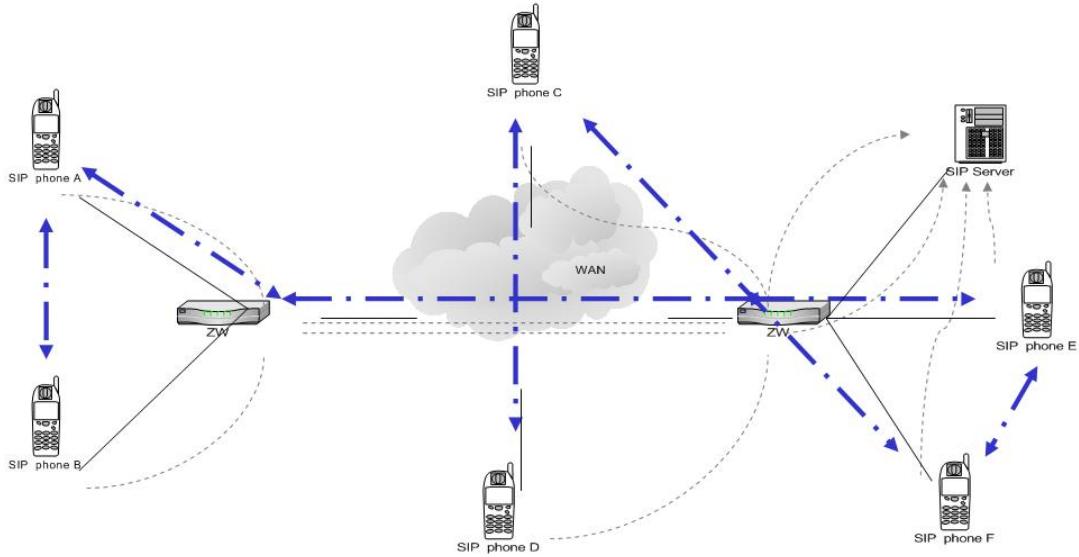


Figure 1.

But there are still some limitations remain that we need to overcome in the future. **When you deploy your SIP server on LAN for SIP service, please make sure that prevent your topology from any case listed as below.**

(1) When SIP client is on LAN, do not use NAT lookback on SIP server.

When there is a SIP server on the LAN, for those SIP clients on WAN, we can set a port forwarding rule or address mapping rule to let them to use WAN IP to access the SIP server behind the ZyWALL, but for those SIP clients which is behind the ZyWALL, please just use the SIP server's LAN IP and **DON'T** use the public IP as their SIP server IP, the ZyWALL doesn't support such a loopback case on SIP registration/proxy server.

For instance, in Figure 2, there is a SIP server on LAN, and there are also two SIP phones E and F on LAN want to talk to each other. Although there is a NAT port forwarding rule for outside SIP clients to use 211.72.158.200 to connect to SIP server, but please let phone E and F use SIP server's LAN IP 192.168.1.200 to connect to SIP server directly.

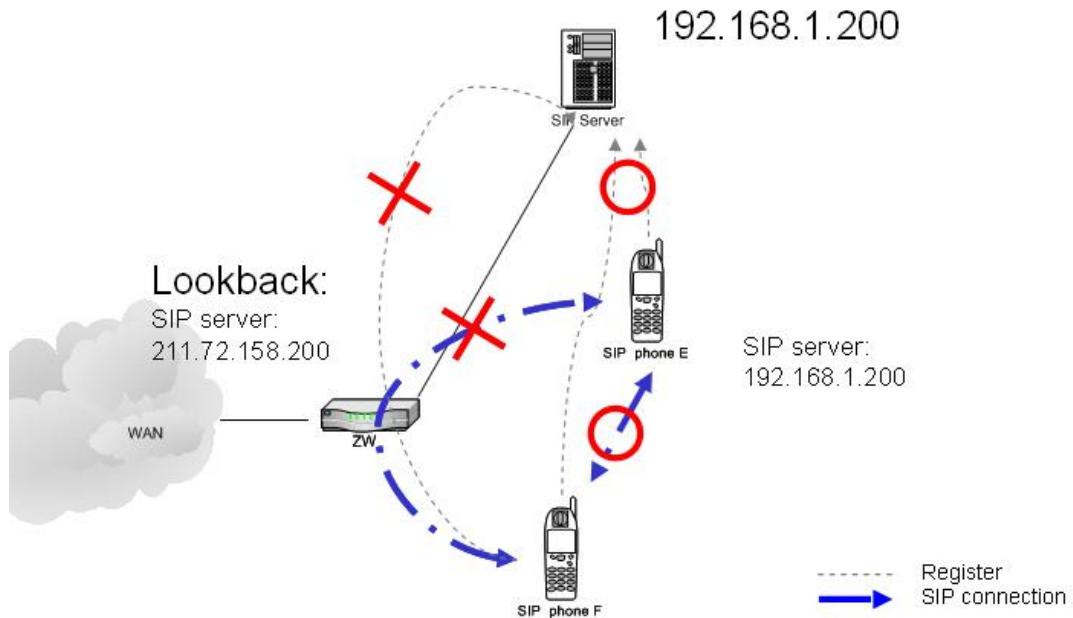


Figure 2.

(2) Try not use different global IPs for SIP client and SIP server on NAT.

Currently, there are still some limitations when use different global IPs for SIP client and SIP server. For instance, in Figure 3, SIP server and a SIP client B are on the same LAN. If we use different global IP for SIP server and the SIP client, the SIP client A which is behind another NAT router will fail to communication with SIP client B.

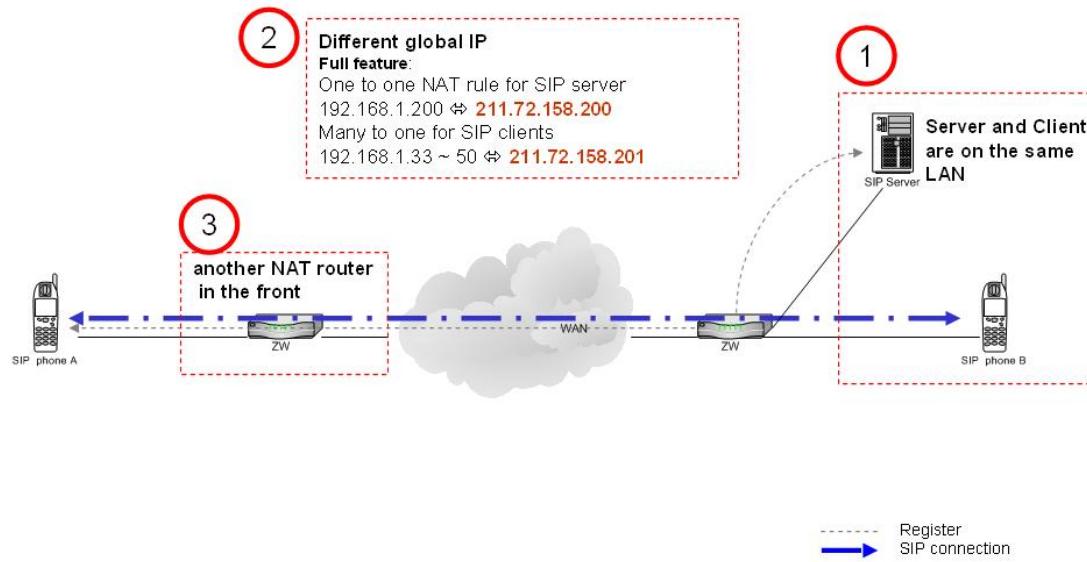


Figure 3.

(3) We do not support that SIP client sends ACK directly to a peer client.

For instance, in Figure 4, when SIP phone A want to send ACK request direct to SIP phone B, because of the limitation, this ACK request will not successfully transmit to SIP

phone B. Thus will be fail on call setup. This limitation is SIP client related issue, some SIP clients will send ACK request direct to the remote clients, some may send through proxy server.

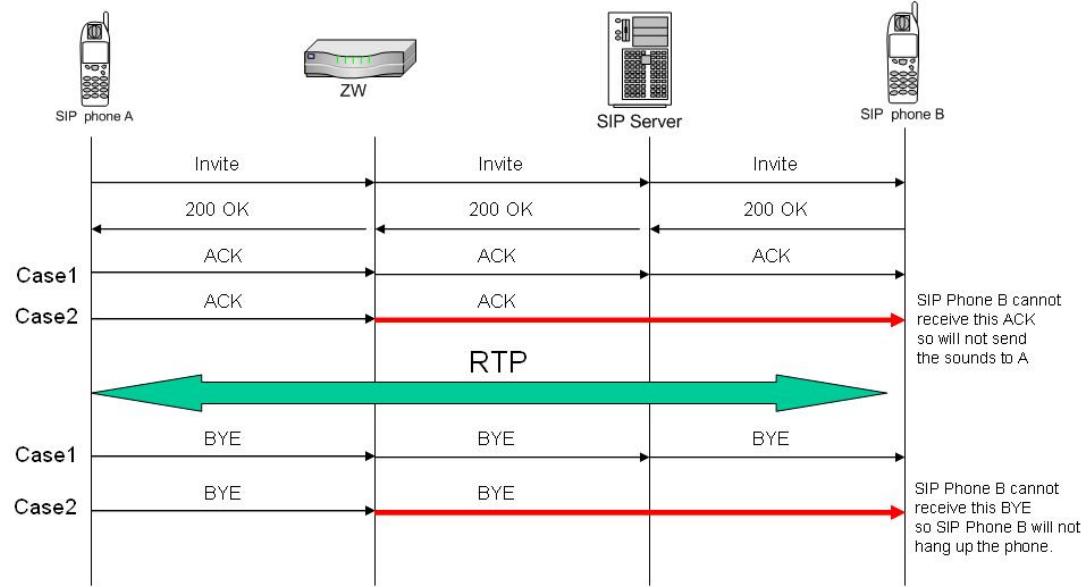


Figure 4.

(4) We do not support multiple SIP proxies in the middle of way.

We haven't implemented or take care on this kind topology (Figure 5), so the result is still unknown.

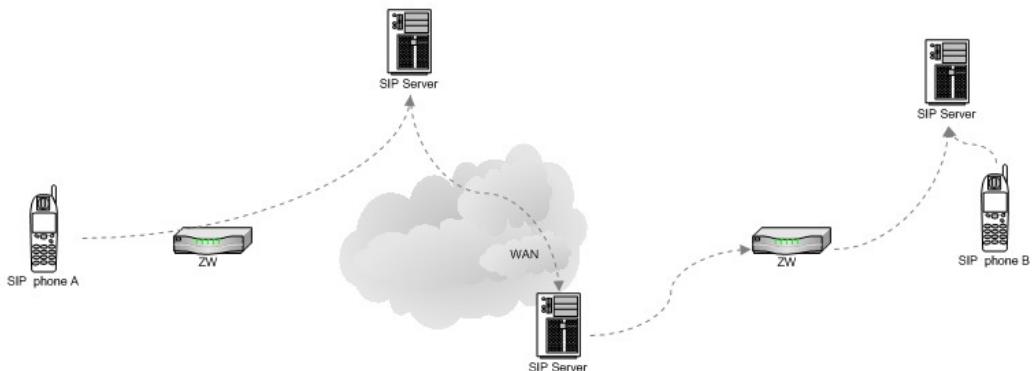


Figure 5

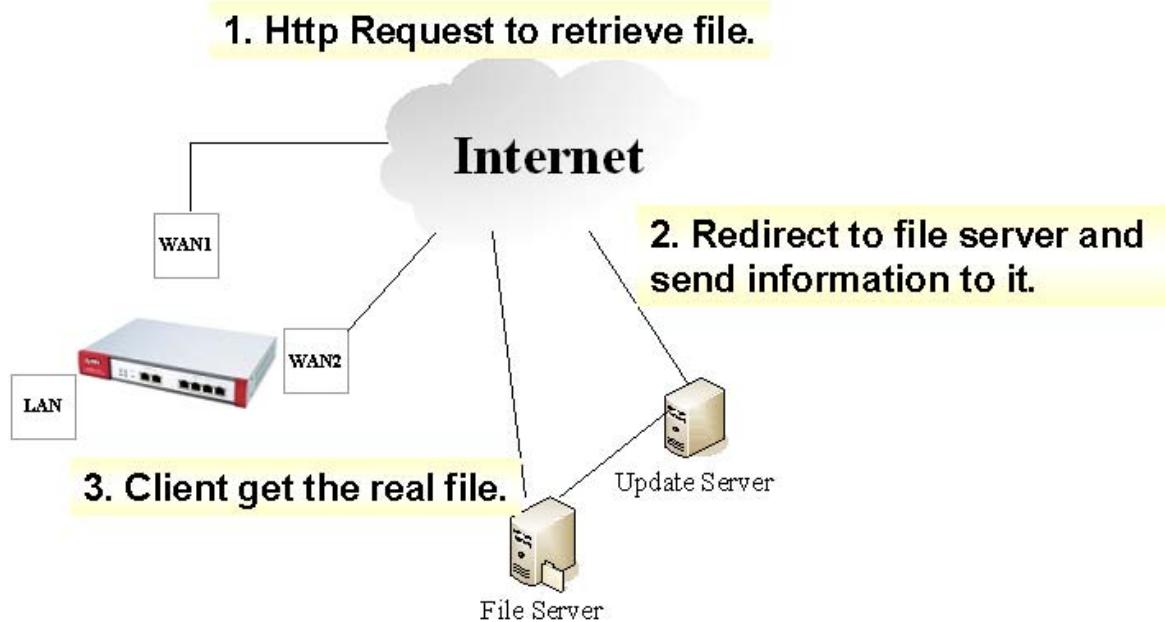
Appendix 15 The mechanism of hose-based load balance feature

- (1) A PC in LAN side wants to download a file from the remote server in the Internet.
- (2) ZyWALL 35 or ZyWALL 70(Multiple WAN product with Load Sharing feature in Active/Active mode)
- (3) PC sends a request to "Update Server" through "WAN1".

(4) "Update Server" will reply a file list to the PC, the download address of the file will be "File Server", at the same time "Update Server" will inform that there is a PC located at "WAN1" IP address will get file from you.

(5) PC knows the file address and retrieve the file through "WAN2".

(6) "File Server" think the PC's IP should be "WAN1" instead of "WAN2". It rejects the PC's request.



In this scenario, we should have a mechanism to ensure that the second session should follow the first session's path to avoid this kind of problem.

That's why we add this feature.

How does this feature work?

(1) PC sends a request to "Update Server" through "WAN1".

(2) "Update Server" will reply a file list to the PC, the download address of the file will be "File Server", at the same time "Update Server" will inform that there is a PC located at "WAN1" IP address will get file from you.

(3) PC knows the file address and want to retrieve the file. ZyWALL finds that the PC already created a session **five seconds ago**, the session went out through "WAN1". It will route this new session by "WAN1".

Five seconds is a key point.

We will have a timeout value.

In this case, if we set the timeout value as "1 seconds". The device **will not** route the new session to the same interface.

If we set the timeout value as "10 seconds", 5 seconds is not timeout. The device **will** route the new session to the same interface.

Appendix 16: The mechanism of ZyWALL IPSec policy IP conflict check:

ZyWALL classifies traffic to IPSec tunnels according to Network Policies. If there are two Network Policies “conflicted”, it’s not possible for ZyWALL to classify traffic correctly. Two policies will conflict if they satisfy both the following conditions at the same time:

- (1) IP address range of “Local Network” of two policies overlaps.
- (2) IP address range of “Remote Network” of two policies overlaps.

For example, the following two Network Policies will conflict:

Policy 1:

Local Network	
 Address Type	Range Address
Starting IP Address	192 . 168 . 1 . 33
Ending IP Address / Subnet Mask	192 . 168 . 1 . 100
Local Port	Start 0 End 0
Remote Network	
 Address Type	Single Address
Starting IP Address	192 . 168 . 2 . 33
Ending IP Address / Subnet Mask	0 . 0 . 0 . 0
Remote Port	Start 0 End 0

Policy 2:

Local Network	
 Address Type	Range Address
Starting IP Address	192 . 168 . 1 . 50
Ending IP Address / Subnet Mask	192 . 168 . 1 . 200
Local Port	Start 0 End 0
Remote Network	
 Address Type	Subnet Address
Starting IP Address	192 . 168 . 2 . 0
Ending IP Address / Subnet Mask	255 . 255 . 255 . 0
Remote Port	Start 0 End 0

To ensure there are no conflicted rules, ZyWALL will compare Network Policy with all other policies during configuration and IKE negotiation. The conflict check occurred at the following situations:

- (1) Save Network policy at configuration time
- (2) Process runtime policy sent from remote gateway during IKE negotiation

	Policies under Static IKE rule (configuration)	Policies under Dynamic IKE rule (configuration)	Runtime policies (IKE negotiation)
Policies under Static IKE rule (configuration)	Compare	Not compare	Not compare
Policies under Dynamic IKE rule (configuration)	Not compare	Not compare	Not compare
Runtime policies (IKE negotiation)	Compare	Not compare	Compare

Note:

- (1) “Compare” means ZyWALL will compare policies in row with policies in column. E.g. ZyWALL will compare “Policies under Static IKE rule” with other “Policies under Static IKE rule”. On the other hand, a policy under dynamic rule will not compare with other policies. During IKE negotiation, with peer policy information, ZyWALL can use the result runtime policy to compare with policies under static and dynamic IKE rules.
- (2) Policies under Static/Dynamic IKE rule are rules in Romfile.
- (3) Runtime policies are policies received from remote gateway. This remote gateway acts as initiator and sends IKE request to ZyWALL. It matches one policy under Dynamic IKE rule. ZyWALL will check whether the received policy conflict with other policies.
- (4) IP address 0.0.0.0 under Static IKE rule means “Any Address”. So it will overlap with all IP address.
- (5) Since “Remote Network” of Network Policy under Dynamic IKE rule can only be determined when tunnel negotiation, ZyWALL skip conflict checking when configuration. It is only compared during IKE negotiation.